

SEQUENCE LISTING

<110> Lasek, Amy W.
Jones, David A.

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<170> PERL Program

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<222> 363, 384

<223> a, t, c, g, or other

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35 40 45
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65 70 75
Val Glu Asp His Leu Ala Trp Ser Lys Asp Ile Asn Ala Tyr Asn
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<211> 1736

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 611514CB1

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<210> 11
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<212> PRT
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 611514CD1

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Cys Ile Tyr Arg Asn Thr Gly Thr Glu Ala Pro Asp Tyr Leu Ala
35 40 45
Thr Val Asp Val Asp Pro Lys Ser Pro Gln Tyr Cys Gln Val Ile
50 55 60
His Arg Leu Pro Met Pro Asn Leu Lys Asp Glu Leu His His Ser
65 70 75
Gly Trp Asn Thr Cys Ser Ser Cys Phe Gly Asp Ser Thr Lys Ser
80 85 90
Arg Thr Lys Leu Val Leu Pro Ser Leu Ile Ser Ser Arg Ile Tyr
95 100 105
Val Val Asp Val Gly Ser Glu Pro Arg Ala Pro Lys Leu His Lys
110 115 120
Val Ile Glu Pro Lys Asp Ile His Ala Lys Cys Glu Leu Ala Phe
125 130 135
Leu His Thr Ser His Cys Leu Ala Ser Gly Glu Val Met Ile Ser
140 145 150
Ser Leu Gly Asp Val Lys Gly Asn Gly Lys Gly Gly Phe Val Leu
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Leu Asp Gly Glu Thr Phe Glu Val Lys Gly Thr Trp Glu Arg Pro
170 175 180
Gly Gly Ala Ala Pro Leu Gly Tyr Asp Phe Trp Tyr Gln Pro Arg
185 190 195
His Asn Val Met Ile Ser Thr Glu Trp Ala Ala Pro Asn Val Leu
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Arg Asp Gly Phe Asn Pro Ala Asp Val Glu Ala Gly Leu Tyr Gly
215 220 225
Ser His Leu Tyr Val Trp Asp Trp Gln Arg His Glu Ile Val Gln
230 235 240
Thr Leu Ser Leu Lys Asp Gly Leu Ile Pro Leu Glu Ile Arg Phe
245 250 255
Leu His Asn Pro Asp Ala Ala Gln Gly Phe Val Gly Cys Ala Leu
260 265 270
Ser Ser Thr Ile Gln Arg Phe Tyr Lys Asn Glu Gly Gly Thr Trp
275 280 285
Ser Val Glu Lys Val Ile Gln Val Pro Pro Lys Lys Val Lys Gly
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Trp Leu Leu Pro Glu Met Pro Gly Leu Ile Thr Asp Ile Leu Leu
305 310 315
Ser Leu Asp Asp Arg Phe Leu Tyr Phe Ser Asn Trp Leu His Gly
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Asp Leu Arg Gln Tyr Asp Ile Ser Asp Pro Gln Arg Pro Arg Leu
335 340 345
Thr Gly Gln Leu Phe Leu Gly Gly Ser Ile Val Lys Gly Gly Pro
350 355 360

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Val Gln Val Leu Glu Asp Glu Glu Leu Lys Ser Gln Pro Glu Pro
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      380                      385                      390
Gln Leu Ser Leu Asp Gly Lys Arg Leu Tyr Ile Thr Thr Ser Leu
      395                      400                      405
Tyr Ser Ala Trp Asp Lys Gln Phe Tyr Pro Asp Leu Ile Arg Glu
      410                      415                      420
Gly Ser Val Met Leu Gln Val Asp Val Asp Thr Val Lys Gly Gly
      425                      430                      435
Leu Lys Leu Asn Pro Asn Phe Leu Val Asp Phe Gly Lys Glu Pro
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Leu Gly Pro Ala Leu Ala His Glu Leu Arg Tyr Pro Gly Gly Asp
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<210> 12
<211> 570
<212> DNA
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<220>
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<223> Incyte ID No: 2072479CB1

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<210> 13
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<212> PRT
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 2072479CD1

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Ala Val Tyr Ser Leu Trp Lys Thr Asp Val Ile Leu Asp Arg Lys
      35                      40                      45
Lys Asn Pro Glu Pro Trp Glu Thr Val Asp Pro Thr Val Pro Gln
      50                      55                      60
Lys Leu Ile Thr Ile Asn Gln Gln Trp Lys Pro Ile Glu Glu Leu
      65                      70                      75
Gln Asn Val Gln Arg Val Thr Lys
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<210> 14
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<212> DNA
<213> Homo sapiens

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<220>
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 <223> Incyte ID No: 410911.5

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 <211> 4368
 <212> DNA
 <213> Homo sapiens

<220>
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<212> PRT
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 1285632CD1

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35 40 45
Ala Ala Pro Ala Ser Arg Asp Gly Gly Gly Val Arg Asp Glu Gly
50 55 60
Pro Ala Ala Ala Gly Asp Gly Leu Gly Arg Pro Leu Gly Pro Thr
65 70 75
Pro Ser Gln Ser Arg Phe Gln Val Asp Leu Val Ser Glu Asn Ala
80 85 90
Gly Arg Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
95 100 105
Ala Ala Gly Ala Gly Ala Gly Ala Lys Gln Thr Pro Ala Asp Gly
110 115 120
Glu Ala Ser Gly Glu Ser Glu Pro Ala Lys Gly Ser Glu Glu Ala
125 130 135
Lys Gly Arg Phe Arg Val Asn Phe Val Asp Pro Ala Ala Ser Ser
140 145 150
Ser Ala Glu Asp Ser Leu Ser Asp Ala Ala Gly Val Gly Val Asp
155 160 165
Gly Pro Asn Val Ser Phe Gln Asn Gly Gly Asp Thr Val Leu Ser
170 175 180
Glu Gly Ser Ser Leu His Ser Gly Gly Gly Gly Ser Gly His
185 190 195
His Gln His Tyr Tyr Tyr Asp Thr His Thr Asn Thr Tyr Tyr Leu
200 205 210
Arg Thr Phe Gly His Asn Thr Met Asp Ala Val Pro Arg Ile Asp
215 220 225
His Tyr Arg His Thr Ala Ala Gln Leu Gly Glu Lys Leu Leu Arg
230 235 240
Pro Ser Leu Ala Glu Leu His Asp Glu Leu Glu Lys Glu Pro Phe
245 250 255
Glu Asp Gly Phe Ala Asn Gly Glu Glu Ser Thr Pro Thr Arg Asp
260 265 270

```

Ala Val Val Thr Tyr Thr Ala Glu Ser Lys Gly Val Val Lys Phe
 275 280 285
 Gly Trp Ile Lys Gly Val Leu Val Arg Cys Met Leu Asn Ile Trp
 290 295 300
 Gly Val Met Leu Phe Ile Arg Leu Ser Trp Ile Val Gly Gln Ala
 305 310 315
 Gly Ile Gly Leu Ser Val Leu Val Ile Met Met Ala Thr Val Val
 320 325 330
 Thr Thr Ile Thr Gly Leu Ser Thr Ser Ala Ile Ala Thr Asn Gly
 335 340 345
 Phe Val Arg Gly Gly Gly Ala Tyr Tyr Leu Ile Ser Arg Ser Leu
 350 355 360
 Gly Pro Glu Phe Gly Gly Ala Ile Gly Leu Ile Phe Ala Phe Ala
 365 370 375
 Asn Ala Val Ala Val Ala Met Tyr Val Val Gly Phe Ala Glu Thr
 380 385 390
 Val Val Glu Leu Leu Lys Glu His Ser Ile Leu Met Ile Asp Glu
 395 400 405
 Ile Asn Asp Ile Arg Ile Ile Gly Ala Ile Thr Val Val Ile Leu
 410 415 420
 Leu Gly Ile Ser Val Ala Gly Met Glu Trp Glu Ala Lys Ala Gln
 425 430 435
 Ile Val Leu Leu Val Ile Leu Leu Leu Ala Ile Gly Asp Phe Val
 440 445 450
 Ile Gly Thr Phe Ile Pro Leu Glu Ser Lys Lys Pro Lys Gly Phe
 455 460 465
 Phe Gly Tyr Lys Ser Glu Ile Phe Asn Glu Asn Phe Gly Pro Asp
 470 475 480
 Phe Arg Glu Glu Glu Thr Phe Phe Ser Val Phe Ala Ile Phe Phe
 485 490 495
 Pro Ala Ala Thr Gly Ile Leu Ala Gly Ala Asn Ile Ser Gly Asp
 500 505 510
 Leu Ala Asp Pro Gln Ser Ala Ile Pro Lys Gly Thr Leu Leu Ala
 515 520 525
 Ile Leu Ile Thr Thr Leu Val Tyr Val Gly Ile Ala Val Ser Val
 530 535 540
 Gly Ser Cys Val Val Arg Asp Ala Thr Gly Asn Val Asn Asp Thr
 545 550 555
 Ile Val Thr Glu Leu Thr Asn Cys Thr Ser Ala Ala Cys Lys Leu
 560 565 570
 Asn Phe Asp Phe Ser Ser Cys Glu Ser Ser Pro Cys Ser Tyr Gly
 575 580 585
 Leu Met Asn Asn Phe Gln Val Met Ser Met Val Ser Gly Phe Thr
 590 595 600
 Pro Leu Ile Ser Ala Gly Ile Phe Ser Ala Thr Leu Ser Ser Ala
 605 610 615
 Leu Ala Ser Leu Val Ser Ala Pro Lys Ile Phe Gln Ala Leu Cys
 620 625 630
 Lys Asp Asn Ile Tyr Pro Ala Phe Gln Met Phe Ala Lys Gly Tyr
 635 640 645
 Gly Lys Asn Asn Glu Pro Leu Arg Gly Tyr Ile Leu Thr Phe Leu
 650 655 660
 Ile Ala Leu Gly Phe Ile Leu Ile Ala Glu Leu Asn Val Ile Ala
 665 670 675
 Pro Ile Ile Ser Asn Phe Phe Leu Ala Ser Tyr Ala Leu Ile Asn
 680 685 690
 Phe Ser Val Phe His Ala Ser Leu Ala Lys Ser Pro Gly Trp Arg
 695 700 705
 Pro Gly Phe Lys Tyr Tyr Asn Met Trp Ile Ser Leu Leu Gly Ala
 710 715 720
 Ile Leu Cys Cys Ile Val Met Phe Val Ile Asn Trp Trp Ala Ala
 725 730 735
 Leu Leu Thr Tyr Val Ile Val Leu Gly Leu Tyr Ile Tyr Val Thr
 740 745 750
 Tyr Lys Lys Pro Asp Val Asn Trp Gly Ser Ser Thr Gln Ala Leu
 755 760 765

Thr Tyr Leu Asn Ala Leu Gln His Ser Ile Arg Leu Ser Gly Val
 770 775 780
 Glu Asp His Val Lys Asn Phe Arg Pro Gln Cys Leu Val Met Thr
 785 790 795
 Gly Ala Pro Asn Ser Arg Pro Ala Leu Leu His Leu Val His Asp
 800 805 810
 Phe Thr Lys Asn Val Gly Leu Met Ile Cys Gly His Val His Met
 815 820 825
 Gly Pro Arg Arg Gln Ala Met Lys Glu Met Ser Ile Asp Gln Ala
 830 835 840
 Lys Tyr Gln Arg Trp Leu Ile Lys Asn Lys Met Lys Ala Phe Tyr
 845 850 855
 Ala Pro Val His Ala Asp Asp Leu Arg Glu Gly Ala Gln Tyr Leu
 860 865 870
 Met Gln Ala Ala Gly Leu Gly Arg Met Lys Pro Asn Thr Leu Val
 875 880 885
 Leu Gly Phe Lys Lys Asp Trp Leu Gln Ala Asp Met Arg Asp Val
 890 895 900
 Asp Met Tyr Ile Asn Leu Phe His Asp Ala Phe Asp Ile Gln Tyr
 905 910 915
 Gly Val Val Val Ile Arg Leu Lys Glu Gly Leu Asp Ile Ser His
 920 925 930
 Leu Gln Gly Gln Glu Glu Leu Ser Ser Gln Glu Lys Ser Pro
 935 940 945
 Gly Thr Lys Asp Val Val Val Ser Val Glu Tyr Ser Lys Lys Ser
 950 955 960
 Asp Leu Asp Thr Ser Lys Pro Leu Ser Glu Lys Pro Ile Thr His
 965 970 975
 Lys Val Glu Glu Glu Asp Gly Lys Thr Ala Thr Gln Pro Leu Leu
 980 985 990
 Lys Lys Glu Ser Lys Gly Pro Ile Val Pro Leu Asn Val Ala Asp
 995 1000 1005
 Gln Lys Leu Leu Glu Ala Ser Thr Gln Phe Gln Lys Lys Gln Gly
 1010 1015 1020
 Lys Asn Thr Ile Asp Val Trp Trp Leu Phe Asp Asp Gly Gly Leu
 1025 1030 1035
 Thr Leu Leu Ile Pro Tyr Leu Leu Thr Thr Lys Lys Lys Trp Lys
 1040 1045 1050
 Asp Cys Lys Ile Arg Val Phe Ile Gly Gly Lys Ile Asn Arg Ile
 1055 1060 1065
 Asp His Asp Arg Arg Ala Met Ala Thr Leu Leu Ser Lys Phe Arg
 1070 1075 1080
 Ile Asp Phe Ser Asp Ile Met Val Leu Gly Asp Ile Asn Thr Lys
 1085 1090 1095
 Pro Lys Lys Glu Asn Ile Ile Ala Phe Glu Glu Ile Ile Glu Pro
 1100 1105 1110
 Tyr Arg Leu His Glu Asp Asp Lys Glu Gln Asp Ile Ala Asp Lys
 1115 1120 1125
 Met Lys Glu Asp Glu Pro Trp Arg Ile Thr Asp Asn Glu Leu Glu
 1130 1135 1140
 Leu Tyr Lys Thr Lys Thr Tyr Arg Gln Ile Arg Leu Asn Glu Leu
 1145 1150 1155
 Leu Lys Glu His Ser Ser Thr Ala Asn Ile Ile Val Met Ser Leu
 1160 1165 1170
 Pro Val Ala Arg Lys Gly Ala Val Ser Ser Ala Leu Tyr Met Ala
 1175 1180 1185
 Trp Leu Glu Ala Leu Ser Lys Asp Leu Pro Pro Ile Leu Leu Val
 1190 1195 1200
 Arg Gly Asn His Gln Ser Val Leu Thr Phe Tyr Ser
 1205 1210

<210> 17
 <211> 735
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 474322.36

<220>
 <221> unsure
 <222> 388
 <223> a, t, c, g, or other

<400> 17
 gtgcagaaca aacaagacgg cctggggata caactctgga gtctcttgag aggttggatg 60
 ggagagcatg tctgtgtgtc tcagagccac caggaggag caggggagcg acggccgggg 120
 cagaagttga gaccaccagc agaggagcta gggcagtcga tctgcatttg tcacccaaga 180
 actcttacca tgaagacct cctactgttg gcagtgatca tgatctttgg cctactgcag 240
 gccatgggga atttggtgaa ttccacaga atgatacaat tgacgacagg aaagggaagcc 300
 gcaactcagt attggctctc atggcgtcca ctgtggcgtg ggtggcagag gatcccccac 360
 ggaatgcacg ggaatgcgtg gtgtcaacntc catgactgtt gctacaaacg tctggagaaa 420
 cgtggatgtg gcaccaaatt tctgagctac aagtttagca actcggggag cagaatccac 480
 ttgtgaaaaa aggaactctc cagaagtcac ctgtgtgagt gtgataaggc tgcgtgccac 540
 tgttttgcta gaacaagac gacctacaat aaaaattctc tggccatgca gaaagcatcc 600
 ctacccatc ctgagggcca ggcaggagcc ctctctatcc caccagaat gagacatcca 660
 gcagatttcc agccttctac tgcctctctc cacctcaact ccgtgcttaa ccaagaagac 720
 tgaactccgg ggggt 735

<210> 18
 <211> 1868
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3040213CB1

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 tctccagaaa tgcatttggg tcactcttca ttgctgcaag gaacttcac gcccttaaca 180
 ctcatcttca aaagactggg actgctgaga tgcctctcat tcttgaagag cgtattcttg 240
 gagctgtatc ctctgttgat ctggaagaaa ctggcgctgt gaaagccccc ggtgatgcta 300
 ttgcccgcgt acatgggctg aggaatgttc aagcagaaga aatggtagag tttctctcag 360
 gcttaaaagg tatgtccttg aacttggaac ctgacaatgt tgggtgtgtc gtgtttggaa 420
 atgataaact aattaaggaa ggagatatag tgaagaggac agggagccatt gtggacgttc 480
 cagttgtgta ggagctgttg ggtcgtgtag ttgatgccct tggtaattgt actgatggaa 540
 aggttccaat tggttccaag acgcgtagcc gagttgggtc gaaagccccc ggtatcatcc 600
 ctggaatttc agtgcgggaa ccaatgcaga ctggcattaa ggtctgggat agcttgggtc 660
 caattgtgtc tggtcacgct gaactgatta ttggtgaccg acagactggg aaaacctcaa 720
 ttgtctatga cacaatcatt aaccagaaac gtttcaatga tggatctgat gaaaagaaga 780
 agctgtactg tacttatgtt gctattggtc aaaaagagatc cactgttgcc cagttgttga 840
 agagacttac agatgcagat gccatgaagt acaccattgt ggtgtcggct acggccctcg 900
 atgtgcctcc acttccagat ctggctctct actctggctg ttccatggga ggtattttta 960
 gagacaatgg caaacatgct ttgatcatct atgacgactt atccaaacag gctgttgctt 1020
 accgtcagat gctctctgtt cctcccgac cccttggtcg taggcctcat ctggtgtgat 1080
 gtgtctactc caactcccggt ttgctggaga gacgagccaa aatgaacgat gcttttgggt 1140
 gtggctctct gactgctttg ccagtcatag aaacacagcg ttggtgatgt tctgcttaca 1200
 ttccaacaaa gtcctatttc atcactgacg gacagatctt ctgggaaaca gaattgttct 1260
 acaaaagtat ccgccttcga attaacgttg atgtgtctgt atctcgtgtc ggtcccgctg 1320
 cccaacacag ggcctatgaag caggtagcag gtaccatgaa tgcgtgcaact cctcagatct 1380
 gtgaggttgc cgtgttggcc cagttcggtt ctgacctcga acagtattct ccaatggcta 1440
 tgagtcgttg cgtgcgtcta actgagttgc tgaagcaagg atactttgt atactttgat 1500
 ttgaagaaca agtgcgttgt atctatgcgg gtgtaagggt atactttgat aaactggac 1560
 ccagacaagt tacaaagttt gagaatgctt tcttgttcca tgtcgtcagc cagcacaagg 1620
 cctgtgtggg cactatcagg gctgatggaa agatctcaga acaactcgtg gcaaacgtga 1680
 aagagtttgg acaaaatttc ttggctggat ttgaagctta atactcgtg gattcacatc 1740
 aaatcacagt tcagttttgt cattgttcta tgaattagtt tccattttga aaaggggtac 1800
 tctcactact ctatgtgata gaaatcacat gaaaaataaa ggttccataa tgcaaaaaaa 1860
 aaaaaaaa 1868

<210> 19
 <211> 553
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3040213CD1

<400> 19
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 Arg Arg Ala Gly Leu Val Ser Arg Asn Ala Leu Gly Ser Ser Phe
 20 25 30
 Ile Ala Ala Arg Asn Phe His Ala Ser Asn Thr His Leu Gln Lys
 35 40 45
 Thr Gly Thr Ala Glu Met Ser Ser Ile Leu Glu Glu Arg Ile Leu
 50 55 60
 Gly Ala Asp Thr Ser Val Asp Leu Glu Glu Thr Gly Arg Val Leu
 65 70 75
 Ser Ile Gly Asp Gly Ile Ala Arg Val His Gly Leu Arg Asn Val
 80 85 90
 Gln Ala Glu Glu Met Val Glu Phe Ser Ser Gly Leu Lys Gly Met
 95 100 105
 Ser Leu Asn Leu Glu Pro Asp Asn Val Gly Val Val Val Phe Gly
 110 115 120
 Asn Asp Lys Leu Ile Lys Glu Gly Asp Ile Val Lys Arg Thr Gly
 125 130 135
 Ala Ile Val Asp Val Pro Val Gly Glu Glu Leu Leu Gly Arg Val
 140 145 150
 Val Asp Ala Leu Gly Asn Ala Ile Asp Gly Lys Gly Pro Ile Gly
 155 160 165
 Ser Lys Thr Arg Arg Val Gly Leu Lys Ala Pro Gly Ile Ile
 170 175 180
 Pro Arg Ile Ser Val Arg Glu Pro Met Gln Thr Gly Ile Lys Ala
 185 190 195
 Val Asp Ser Leu Val Pro Ile Gly Arg Gly Gln Arg Glu Leu Ile
 200 205 210
 Ile Gly Asp Arg Gln Thr Gly Lys Thr Ser Ile Ala Ile Asp Thr
 215 220 225
 Ile Ile Asn Gln Lys Arg Phe Asn Asp Gly Ser Asp Glu Lys Lys
 230 235 240
 Lys Leu Tyr Cys Ile Tyr Val Ala Ile Gly Gln Lys Arg Ser Thr
 245 250 255
 Val Ala Gln Leu Val Lys Arg Leu Thr Asp Ala Asp Ala Met Lys
 260 265 270
 Tyr Thr Ile Val Val Ser Ala Thr Ala Ser Asp Ala Ala Pro Leu
 275 280 285
 Gln Tyr Leu Ala Pro Tyr Ser Gly Cys Ser Met Gly Glu Tyr Phe
 290 295 300
 Arg Asp Asn Gly Lys His Ala Leu Ile Ile Tyr Asp Asp Leu Ser
 305 310 315
 Lys Gln Ala Val Ala Tyr Arg Gln Met Ser Leu Leu Leu Arg Arg
 320 325 330
 Pro Pro Gly Arg Glu Ala Tyr Pro Gly Asp Val Phe Tyr Leu His
 335 340 345
 Ser Arg Leu Leu Gly Arg Ala Ala Lys Met Asn Asp Ala Phe Gly
 350 355 360
 Gly Gly Ser Leu Thr Ala Leu Pro Val Ile Glu Thr Gln Ala Gly
 365 370 375
 Asp Val Ser Ala Tyr Ile Pro Thr Asn Val Ile Ser Ile Thr Asp
 380 385 390
 Gly Gln Ile Phe Leu Glu Thr Glu Leu Phe Tyr Lys Gly Ile Arg
 395 400 405
 Pro Ala Ile Asn Val Gly Leu Ser Val Ser Arg Val Gly Ser Ala
 410 415 420

Ala	Gln	Thr	Arg	Ala	Met	Lys	Gln	Val	Ala	Gly	Thr	Met	Lys	Leu	
				425					430					435	
Glu	Leu	Ala	Gln	Tyr	Arg	Glu	Val	Ala	Ala	Phe	Ala	Gln	Phe	Gly	
				440					445					450	
Ser	Asp	Leu	Asp	Ala	Ala	Thr	Gln	Gln	Leu	Leu	Ser	Arg	Gly	Val	
				455					460					465	
Arg	Leu	Thr	Glu	Leu	Leu	Lys	Gln	Gly	Gln	Tyr	Ser	Pro	Met	Ala	
				470					475					480	
Ile	Glu	Glu	Gln	Val	Ala	Val	Ile	Tyr	Ala	Gly	Val	Arg	Gly	Tyr	
				485					490					495	
Leu	Asp	Lys	Leu	Glu	Pro	Ser	Lys	Ile	Thr	Lys	Phe	Glu	Asn	Ala	
				500					505					510	
Phe	Leu	Ser	His	Val	Val	Ser	Gln	His	Gln	Ala	Leu	Leu	Gly	Thr	
				515					520					525	
Ile	Arg	Ala	Asp	Gly	Lys	Ile	Ser	Glu	Gln	Ser	Asp	Ala	Lys	Leu	
				530					535					540	
Lys	Glu	Ile	Val	Thr	Asn	Phe	Leu	Ala	Gly	Phe	Glu	Ala			
				545					550						

<210> 20

<211> 528

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1282225CB1

<400> 20

ggagccccct	ataaaacagc	ctacagtgga	cagtcctggtc	ggcagagccg	caggtcagtc	60
gtgaagaggg	agctctattg	ccaccatgag	ttctccggc	aagtaccaac	tcagagacca	120
ggaaaacttt	gaagcctcca	tgaaggcaat	cgtctcgcc	gaagagctca	tcagaagggg	180
gaaggatato	aaggggggtgt	cggaatcgt	gcagaatggg	aagcacttca	agttccaccat	240
caccgtctggg	tccaaagtga	tccaaaaacga	attcacggtg	ggggaggaat	gtgagctgga	300
gacaatgaca	ggggagaaaag	tcaagacagt	ggttcagttg	gaaggtgaca	ataaactgggt	360
gacagctttc	aaaaacatca	agtcctgtgac	cgaactcaac	ggcgacataa	tcaccaatcac	420
catgacattg	ggtgacattg	tcttcaagag	aatcagcaag	agaattttaa	caagtcgtgca	480
tttcatatta	ttttagtgtg	taaaattaat	gtaataaagt	gaactttg		528

<210> 21

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1282225CD1

<400> 21

Met	Ser	Phe	Ser	Gly	Lys	Tyr	Gln	Leu	Gln	Ser	Gln	Glu	Asn	Phe	
1				5					10					15	
Glu	Ala	Phe	Met	Lys	Ala	Ile	Gly	Leu	Pro	Glu	Glu	Leu	Ile	Gln	
				20					25					30	
Lys	Gly	Lys	Asp	Ile	Lys	Gly	Val	Ser	Glu	Ile	Val	Gln	Asn	Gly	
				35					40					45	
Lys	His	Phe	Lys	Phe	Thr	Ile	Thr	Ala	Gly	Ser	Lys	Val	Ile	Gln	
				50					55					60	
Asn	Glu	Phe	Thr	Val	Gly	Glu	Glu	Cys	Glu	Leu	Glu	Thr	Met	Thr	
				65					70					75	
Gly	Glu	Lys	Val	Lys	Thr	Val	Val	Gln	Leu	Glu	Gly	Asp	Asn	Lys	
				80					85					90	
Leu	Val	Thr	Ala	Phe	Lys	Asn	Ile	Lys	Ser	Val	Thr	Glu	Leu	Asn	
				95					100					105	
Gly	Asp	Ile	Ile	Thr	Asn	Thr	Met	Thr	Leu	Gly	Asp	Ile	Val	Phe	
				110					115					120	
Lys	Arg	Ile	Ser	Lys	Arg	Ile									

<210> 22
 <211> 2486
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <223> Incyte ID No: 991163CB1

<400> 22
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 agggggggggg agcgccgcct ggagcggcggg aggtcatatt gaacattcca gatacattacc 120
 attactcgatg gctgtttgata acagcaagat ggcttttgaac tcagggtcac cacctgctat 180
 tggaccttac tatgaaaacc atggatacca accggaanaac ccctatccc caccggccac 240
 tgttggtcccc actgtctacg aggtgcatcc ggctcagtag taccggtccc ccgtgcccc 300
 gtacgccccg agggctctga cgcaggcttc caaccccgct gtctgcacgc agcccaaatc 360
 cccatccggg acagtgtgca cctcaaagac ctgtgcatca ccttgacctt 420
 ggggacccctc ctgctggggag ctgcgctggc cgtctggccta ccttggaagt tcatggggag 480
 caagtgtctcc aactctggga tagagtgcga ctccctcaggt acctgcatca acccctctaa 540
 ctgggtgtgat ggcgtgtcac actgccccgg cggggaggag gagaatcggt gtgttcgctt 600
 ctacgggacca aactctatcc ttacagtgta ctcatctcag aggaagtctc ggcaacctgt 660
 gtgccaagac gactgggaac agaactacgg gcggggcgcc tgcagggaca tgggctataa 720
 gaataatttt tactctagcc aaggaatagt ggatgacagc ggatccacca gctttatgaa 780
 actgaacaca agtgcggcca atgtcgatat ctataaaaaa ctgtaccaca gtgatgcctg 840
 ttcttcaaaa gcagtgtgtt gcggcgagag cgcgctccc ggggctctgg cctgfcaggt 960
 ccgccaagagc aggtatttgg tccacgtgtg cggaggctcc atcatcacc ccgagtggaac 1020
 gcactgcac gtccagaacg cgtgacagcc tcttaacaa ccatggcatt ggcaggcatt 1080
 cgtgacagcc gccactcgc ttttcatggt ctatggagcc ggataccaag tagaaaaagt 1140
 tggggggatt ttgagacaat actccaagac caagaacaat gacattgcgc tgatgaagct 1200
 gcatagccct ctgactttca acgacctagt gaaaccagtg tgtctgccca acccaggcat 1260
 gatgctgcag ccagaacagc tctgctggat ttccgggtgg gggggcaccg aggagaaaag 1320
 gaagacctca gaagtgtcga acgctgccaa ggtgcttctc attgagacac agagatgcaa 1380
 cagcagatat gttctatgaca acctgatcac accagccact ctgtgtgcgc gttctctgca 1440
 ggggaagcat gattcttgcc aggggtgacg tggaggccct atcgctcact cgaagaacaa 1500
 tatctggtgg ctgatagggg atacaagctg ggggttctgc tgtgccaagc cttaacagacc 1560
 agggagtgtac gggagtgtag tggatttcac ggaactggat ttgcttctac aagaaaacaa 1620
 cggctaattcc acatggtctt ctgctctgac cgtctcttag agatgatcca gaggtcactt cattttttt 1740
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 ctgagcactc ctggtgcagg tctccacctg cacattgggt ggggctcctg gggaggagac 2340
 tcagccttcc tctcatctc cctgaccctg gctctagca ccttgagag tcacatgccc 2400
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<210> 23
 <211> 384
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 991163CD1

<400> 23
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Gly Thr Cys Ile Asn	Pro Ser Asn Trp	Cys Asp Gly Val Ser	His
20	25	30	
Cys Pro Gly Gly Glu	Asp Glu Asn Arg	Cys Val Arg Leu Tyr	Gly
35	40	45	
Pro Asn Phe Ile Leu	Gln Val Tyr Ser	Ser Gln Arg Lys Ser	Trp
50	55	60	
His Pro Val Cys Gln	Asp Asp Trp Asn	Glu Asn Tyr Gly Arg	Ala
65	70	75	
Ala Cys Arg Asp Met	Gly Tyr Lys Asn	Asn Phe Tyr Ser Ser	Gln
80	85	90	
Gly Ile Val Asp Asp	Ser Gly Ser Thr	Ser Phe Met Lys Leu	Asn
95	100	105	
Thr Ser Ala Gly Asn	Val Asp Ile Tyr	Lys Leu Tyr His Ser	
110	115	120	
Asp Ala Cys Ser Ser	Lys Ala Val Val	Ser Leu Arg Cys Ile	Ala
125	130	135	
Cys Gly Val Asn Leu	Asn Ser Ser Arg	Gln Ser Arg Ile Val	Gly
140	145	150	
Gly Glu Ser Ala Leu	Pro Gly Ala Trp	Pro Trp Gln Val Ser	Leu
155	160	165	
His Val Gln Asn Val	His Val Cys Gly	Gly Ser Ile Ile Thr	Pro
170	175	180	
Glu Trp Thr Val Thr	Ala Ala His Cys	Val Glu Lys Pro Leu	Asn
185	190	195	
Asn Pro Trp His Trp	Thr Ala Phe Ala	Gly Ile Leu Arg Gln	Ser
200	205	210	
Phe Met Phe Tyr Gly	Ala Gly Tyr Gln	Val Glu Lys Val Ile	Ser
215	220	225	
His Pro Asn Tyr Asp	Ser Lys Thr Lys	Asn Asn Asp Ile Ala	Leu
230	235	240	
Met Lys Leu Gln Lys	Pro Leu Thr Phe	Asn Asp Leu Val Lys	Pro
245	250	255	
Val Cys Leu Pro Asn	Pro Gly Met Met	Leu Gln Pro Glu Gln	Leu
260	265	270	
Cys Trp Ile Ser Gly	Trp Gly Ala Thr	Glu Glu Lys Gly Lys	Thr
275	280	285	
Ser Glu Val Leu Asn	Ala Ala Lys Val	Leu Leu Ile Glu Thr	Gln
290	295	300	
Arg Cys Asn Ser Arg	Tyr Val Tyr Asp	Asn Leu Ile Thr Pro	Ala
305	310	315	
Met Ile Cys Ala Gly	Phe Leu Gln Gly	Asn Val Asp Ser Cys	Gln
320	325	330	
Gly Asp Ser Gly Gly	Pro Leu Val Thr	Ser Lys Asn Asn Ile	Trp
335	340	345	
Trp Leu Ile Gly Asp	Thr Ser Trp Gly	Ser Gly Cys Ala Lys	Ala
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Tyr Arg Pro Gly Val	Tyr Gly Asn Val	Met Val Phe Thr Asp	Trp
365	370	375	
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380			

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 <213> Homo sapiens

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 <223> Incyte ID No: 3220207CB1

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 <222> 610-648
 <223> a, t, c, g, or other

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<213> Homo sapiens

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35 40 45
Gly Lys Arg Phe Ser His Ser Gly Asn Gln Leu Asp Gly Pro Ile
50 55 60
Thr Ala Leu Arg Val Arg Val Asn Thr Tyr Tyr Ile Val Gly Leu
65 70 75
Gln Val Arg Tyr Gly Lys Val Trp Ser Asp Tyr Val Gly Gly Arg
80 85 90
Asn Gly Asp Leu Glu Glu Ile Phe Leu His Pro Gly Glu Ser Val
95 100 105
Ile Gln Val Ser Gly Lys Tyr Lys Trp Tyr Leu Lys Lys Leu Val
110 115 120
Phe Val Thr Asp Lys Gly Arg Tyr Leu Ser Phe Gly Lys Asp Ser
125 130 135
Gly Thr Ser Phe Asn Ala Val Pro Leu His Pro Asn Thr Val Leu
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Val Arg Glu Asn Leu	125	Gln Phe Ser Ala Ala	130	Leu Arg Leu Ala Thr	135
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 <213> Homo sapiens

<220>
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gcttaccatg	gctggccggc	cagctccaca	cttgactggg	ttcttacttc	tcagccagta	240
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 <211> 2333
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 345275.4

<220>
 <221> unsure
 <222> 915-1222, 2199
 <223> a, t, c, g, or other

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<210> 39
<211> 1448
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 124600CB1

<220>
<221> unsure
<222> 1164
<223> a, t, c, g, or other

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ggcgtgtgtg atgtgaatct tgaagcaggt gtacagtgt 180
gtgcagcttc agaagactct gttcatccag tgcgattggt ctgaccagca acactgaga 240
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PA-0038 US

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<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 124600CD1

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35 40 45
Lys Ala Ala Leu Asp Glu Gln Phe Glu Pro Gln Lys Thr Leu Phe
50 55 60
Ile Gln Cys Asp Val Ala Asp Gln Gln Gln Leu Arg Asp Thr Phe
65 70 75
Arg Lys Val Val Asp His Phe Gly Arg Leu Asp Ile Leu Val Asn
80 85 90
Asn Ala Gly Val Asn Asn Glu Lys Asn Trp Glu Lys Thr Leu Gln
95 100 105
Ile Asn Leu Val Ser Val Ile Ser Gly Thr Tyr Leu Gly Leu Asp
110 115 120
Tyr Met Ser Lys Gln Asn Gly Gly Glu Gly Ile Ile Ile Asn
125 130 135
Met Ser Ser Leu Ala Gly Leu Met Pro Val Ala Gln Gln Pro Val
140 145 150
Tyr Cys Ala Ser Lys His Gly Ile Val Gly Phe Thr Arg Ser Ala
155 160 165
Ala Leu Ala Ala Asn Leu Met Asn Ser Gly Val Arg Leu Asn Ala
170 175 180
Ile Cys Pro Gly Phe Val Asn Thr Ala Ile Leu Glu Ser Ile Glu
185 190 195
Lys Glu Glu Asn Met Gly Gln Tyr Ile Glu Tyr Lys Asp His Ile
200 205 210
Lys Asp Met Ile Lys Tyr Tyr Gly Ile Leu Asp Pro Pro Leu Ile
215 220 225
Ala Asn Gly Leu Ile Thr Leu Ile Glu Asp Asp Ala Leu Asn Gly
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260 265

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<211> 743
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 978410.7

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gagccaggga aataaggctc gaggattcag gatggggtga aaggtgggtg cttaaaggaa 540

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 <211> 830
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 1401116.1

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 <211> 2147
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 2921009CB1

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<210> 44

<211> 438

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2921009CD1

<400> 44

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Phe Arg Leu Lys Cys Asp Ser Asp His Leu Gly Leu Glu Ser Arg
35 40 45
Glu Ser Gln Ser Gln Tyr Cys Arg Asn Ile Leu Tyr Asn Phe Leu
50 55 60
Lys Leu Pro Ala Lys Arg Ser Ile Asn Cys Ser Gly Val Thr Arg
65 70 75
Gly Asp Gln Glu Ala Val Leu Gln Ala Ile Leu Asn Asn Leu Glu
80 85 90
Val Lys Lys Lys Arg Glu Pro Phe Thr Asp Thr His Tyr Leu Ser
95 100 105
Leu Thr Arg Asp Cys Glu His Phe Lys Ala Glu Arg Lys Phe Ile
110 115 120
Gln Phe Pro Leu Ser Lys Glu Glu Val Glu Phe Pro Ile Ala Tyr
125 130 135
Ser Met Val Ile His Glu Lys Ile Glu Asn Phe Glu Arg Leu Leu
140 145 150
Arg Ala Val Tyr Ala Pro Gln Asn Ile Tyr Cys Val His Val Asp
155 160 165
Glu Lys Ser Pro Glu Thr Phe Lys Glu Ala Val Lys Ala Ile Ile
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Ser Cys Phe Pro Asn Val Phe Ile Ala Ser Lys Leu Val Arg Val
185 190 195
Val Tyr Ala Ser Trp Ser Arg Val Gln Ala Asp Leu Asn Cys Met
200 205 210
Glu Asp Leu Leu Gln Ser Ser Val Pro Trp Lys Tyr Phe Leu Asn
215 220 225
Thr Cys Gly Thr Asp Phe Pro Ile Lys Ser Asn Ala Glu Met Val
230 235 240
Gln Ala Leu Lys Met Leu Asn Gly Arg Asn Ser Met Glu Ser Glu
245 250 255
Val Pro Pro Lys His Lys Glu Thr Arg Trp Lys Tyr His Phe Glu
260 265 270
Val Val Arg Asp Thr Leu His Leu Thr Asn Lys Lys Lys Asp Pro
275 280 285
Pro Pro Tyr Asn Leu Thr Met Phe Thr Gly Asn Ala Tyr Ile Val
290 295 300
Ala Ser Arg Asp Phe Val Gln His Val Leu Lys Asn Pro Lys Ser
305 310 315
Gln Gln Leu Ile Glu Trp Val Lys Asp Thr Tyr Ser Pro Asp Glu
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His Leu Trp Ala Thr Leu Gln Arg Ala Arg Trp Met Pro Gly Ser

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Gly	Ala	Pro	Tyr	365	Ala	Pro	Cys	Ser	370	Ile	His	Gln	Arg	Ala	Ile	375
Cys	Val	Tyr	Gly	380	Ala	Gly	Asp	Leu	385	Trp	Met	Leu	Gln	Asn	His	390
His	Leu	Leu	Ala	395	Asn	Lys	Phe	Asp	400	Pro	Lys	Val	Asp	Asp	Asn	405
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<210> 45
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 <213> Homo sapiens

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 <223> Incyte ID No: 255115.4

<220>
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 <222> 2087, 2089, 2094, 2096-2098, 2108, 2110, 2112, 2115-2116, 2120,
 2122-2123, 2125, 2136
 <223> a, t, c, g, or other

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 gatcaaatga ttttcatgga gaggataaaa aatatgatat atatgcttta ttttgacttt 720
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 cccactacat tattttgagc aatggggaaa gctgaaatgt ggctcattcg aacctattgg 840
 gattttgaat ttctctgccc attcttacca aatgttgatt ttgtttgggg acttcaactg 900
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 ctcatagtat caacatttgt ttgcaaatcac tcagaatatt ttgcttctcat tttgagcaga 2040

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<210> 46
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 <212> DNA
 <213> Homo sapiens

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 <221> misc_feature
 <223> Incyte ID No: 1213592.1

<220>
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 <222> 692
 <223> a, t, c, g, or other

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 aagtcccccga gaagctacag ctgccaggtc anggcatgaa ggggagcacc gtgggaggaa 720
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 <212> DNA
 <213> Homo sapiens

<220>
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<210> 48
<211> 453
<212> PRT
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 1376382CD1

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35 40 45
Leu His Leu Asp Pro Thr Tyr His Ile Thr Asp Asp His Thr Lys
50 55 60
Val Cys Ala Ser Ser Lys Gly Ala Asn Ala Ser Asn Pro Gly Pro
65 70 75
Phe Gly Asp Val Leu Cys Asp Ser Pro Tyr Gln Leu Ile Leu Ser
80 85 90
Ala Phe Asp Phe Ile Lys Asn Ser Gly Gln Glu Ala Ser Phe Met
95 100 105
Ile Trp Thr Gly Asp Ser Pro Pro His Val Pro Val Pro Glu Leu
110 115 120
Ser Thr Asp Thr Val Ile Asn Val Ile Thr Asn Met Thr Thr Thr
125 130 135
Ile Gln Ser Leu Phe Pro Asn Leu Gln Val Phe Pro Ala Leu Gly
140 145 150
Asn His Asp Tyr Trp Pro Gln Asp Gln Leu Pro Val Val Thr Ser
155 160 165
Lys Val Tyr Asn Ala Val Ala Asn Leu Trp Lys Pro Trp Leu Asp
170 175 180
Glu Glu Ala Ile Ser Thr Leu Arg Lys Gly Gly Phe Tyr Ser Gln
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Lys Val Thr Thr Asn Pro Asn Leu Arg Ile Ile Ser Leu Asn Thr
200 205 210
Asn Leu Tyr Tyr Gly Pro Asn Ile Met Thr Leu Asn Lys Thr Asp
215 220 225
Pro Ala Asn Gln Phe Glu Trp Leu Glu Ser Thr Leu Asn Asn Ser
230 235 240
Gln Gln Asn Lys Glu Lys Val Tyr Ile Ile Ala His Val Pro Val
245 250 255
Gly Tyr Leu Pro Ser Ser Gln Asn Ile Thr Ala Met Arg Glu Tyr
260 265 270
Tyr Asn Glu Lys Leu Ile Asp Ile Phe Gln Lys Tyr Ser Asp Val
275 280 285
Ile Ala Gly Gln Phe Tyr Gly His Thr His Arg Asp Ser Ile Met
290 295 300
Val Leu Ser Asp Lys Lys Gly Ser Pro Val Asn Ser Leu Phe Val
305 310 315
Ala Pro Ala Val Thr Pro Val Lys Ser Val Leu Glu Lys Gln Thr
320 325 330
Asn Asn Pro Gly Ile Arg Leu Phe Gln Tyr Asp Pro Arg Asp Tyr
335 340 345
Lys Leu Leu Asp Met Leu Gln Tyr Tyr Leu Asn Leu Thr Glu Ala
350 355 360
Asn Leu Lys Gly Glu Ser Ile Trp Lys Leu Glu Tyr Ile Leu Thr

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Gln Thr Tyr Asp Ile Glu Asp Leu Gln Pro Glu Ser Leu Tyr Gly	365	370	375
	380	385	390
Leu Ala Lys Gln Phe Thr Ile Leu Asp Ser Lys Gln Phe Ile Lys	395	400	405
Tyr Tyr Asn Tyr Phe Phe Val Ser Tyr Asp Ser Ser Val Thr Cys	410	415	420
Asp Lys Thr Cys Lys Ala Phe Gln Ile Cys Ala Ile Met Asn Leu	425	430	435
Asp Asn Ile Ser Tyr Ala Asp Cys Leu Lys Gln Leu Tyr Ile Lys	440	445	450
His Asn Tyr			

<210> 49
 <211> 2107
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2264641CB1

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cgccgcgcgc	cgccgcgtgg	agaaccagta	ctctctctac	tgccccgcgc	cgccgcgcgc	2040
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<210> 50
 <211> 632
 <212> PRT
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2264641CD1

<400> 50

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Ala Gln Ala Ala Val  Asp Phe Ala His Lys Phe Cys Arg Phe
 35         40         45
Leu Arg Asp Asn Pro  Ala Tyr Asp Thr Pro Asp Ala Gly Ala Ser
 50         55         60
Phe Ser Arg His Phe  Ala Ala Asn Phe Leu Asp Val Phe Gly Glu
 65         70         75
Glu Val Arg Arg Val  Leu Val Ala Gly Pro Thr Thr Arg Gly Ala
 80         85         90
Ala Val Ser Ala Glu  Ala Met Glu Pro Glu Leu Ala Asp Thr Ser
 95        100       105
Ala Leu Lys Ala Ala  Ser Tyr Gly His Ser Arg Ser Ser Glu Asp
110        115       120
Val Ser Thr His Ala  Ala Thr Lys Ala Arg Val Arg Lys Gly Phe
125        130       135
Ser Leu Arg Asn Met  Ser Leu Cys Val Val Asp Gly Val Arg Asp
140        145       150
Met Trp His Arg Arg  Ala Ser Pro Glu Pro Asp Ala Ala Ala Ala
155        160       165
Pro Arg Thr Ala Glu  Pro Arg Asp Lys Trp Thr Arg Arg Leu Arg
170        175       180
Leu Ser Arg Thr Leu  Ala Ala Lys Val Glu Leu Val Asp Ile Gln
185        190       195
Arg Glu Gly Ala Leu  Arg Phe Met Val Ala Asp Asp Ala Ala Ala
200        205       210
Gly Ser Gly Gly Ser  Ala Gln Trp Gln Lys Cys Arg Leu Leu Leu
215        220       225
Arg Arg Ala Val Ala  Glu Glu Arg Phe Arg Leu Glu Phe Phe Val
230        235       240
Pro Pro Lys Ala Ser  Arg Pro Lys Val Ser Ile Pro Leu Ser Ala
245        250       255
Ile Ile Glu Val Arg  Thr Thr Met Pro Leu Glu Met Pro Glu Lys
260        265       270
Asp Asn Thr Phe Val  Leu Lys Val Glu Asn Gly Ala Glu Tyr Ile
275        280       285
Leu Glu Thr Ile Asp  Ser Leu Gln Lys His Ser Trp Val Ala Asp
290        295       300
Ile Gln Gly Cys Val  Asp Pro Gly Asp Ser Glu Glu Asp Thr Glu
305        310       315
Leu Ser Cys Thr Arg  Gly Gly Cys Leu Ala Ser Arg Val Ala Ser
320        325       330
Cys Ser Cys Glu Leu  Leu Thr Asp Ala Val Asp Leu Pro Arg Pro
335        340       345
Pro Glu Thr Thr Ala  Val Gly Ala Val Val Thr Ala Pro His Ser
350        355       360
Arg Gly Arg Asp Ala  Val Arg Glu Ser Leu Ile His Val Pro Leu
365        370       375
Glu Thr Phe Leu Gln  Thr Leu Glu Ser Pro Gly Gly Ser Gly Ser
380        385       390
Asp Ser Asn Asn Thr  Gly Glu Gln Gly Ala Glu Thr Asp Pro Glu
395        400       405
Ala Glu Pro Glu Leu  Glu Leu Ser Asp Tyr Pro Trp Phe His Gly
410        415       420
Thr Leu Ser Arg Val  Lys Ala Ala Gln Leu Val Leu Ala Gly Gly
425        430       435
Pro Arg Asn His Gly  Leu Phe Val Ile Arg Gln Ser Glu Thr Arg
440        445       450
Pro Gly Glu Tyr Val  Leu Thr Phe Asn Phe Gln Gly Lys Ala Lys

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His Leu Arg Leu	455	Ser Leu Asn Gly	460	His Gly Gln Cys	465	His Val Gln
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His Leu Trp Phe	485	Gln Ser Val Leu Asp	490	Met Leu Arg His	495	Phe His
	500		505		510	
Thr His Pro Ile	515	Pro Leu Glu Ser Gly	520	Gly Ser Ala Asp	525	Ile Thr
	530		535		540	
Leu Arg Ser Tyr	545	Val Arg Ala Gln Asp	550	Pro Pro Pro Glu	555	Pro Gly
	560		565		570	
Pro Thr Pro Pro	575	Ala Ala Pro Ala Ser	580	Pro Ala Cys Trp	585	Ser Asp
	590		595		600	
Ser Pro Gly Gln	605	His Tyr Phe Ser Ser	610	Leu Ala Ala Ala	615	Cys
	620		625		630	
Pro Pro Ala Ser		Pro Ser Asp Ala Ala		Gly Ala Ser Ser		Ser
Ala Ser Ser Ser		Ser Ala Ala Ser Gly		Pro Ala Pro Pro		Arg
Val Glu Gly Gln		Leu Ser Ala Arg Ser		Arg Ser Asn Ser		Ala
Arg Leu Leu Glu		Ala Val Ala Ala Thr		Ala Ala Glu Glu		Pro
Glu Ala Ala Pro		Gly Arg Ala Arg Ala		Val Glu Asn Gln		Tyr
Phe Tyr						

<210> 51
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 <212> DNA
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 <223> Incyte ID No: 237547CB1

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	ccagacacac	ggatgaactat	gggagcgatc	tcacaggcgg	cggggacctg	tttgttgcca	240
	atgagaaaaa	ggccatgcag	aacctaaatg	accgtctagc	gagctacctt	gaaaagggtc	300
	ggaccctgga	gcagtcaca	tccaaacttg	aagtgcacaa	caagcagctg	tacgaaaccc	360
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	tccatgtaaa	ttgcaaaata	accactttct	aattttttcc	gtttcttgaa	ttgtaaaaac	1740
	ccctttggga	gtcccttggt	tcttattgag	ccaattttct	gggttaattct	atgtattttt	1800

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gcc 1863

<210> 52
<211> 424
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 237547CD1

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Thr Thr Pro Ser Val Tyr Gly Gly Ala Gly Arg Gly Ile Arg
35 40 45
Ile Ser Asn Ser Arg His Thr Val Asn Tyr Gly Ser Asp Leu Thr
50 55 60
Gly Gly Gly Asp Leu Phe Val Gly Asn Glu Lys Met Ala Met Gln
65 70 75
Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Glu Lys Val Arg Thr
80 85 90
Leu Glu Gln Ser Asn Ser Lys Leu Glu Val Gln Ile Lys Gln Trp
95 100 105
Tyr Glu Thr Asn Ala Pro Arg Ala Gly Arg Asp Tyr Ser Ala Tyr
110 115 120
Tyr Arg Gln Ile Glu Glu Leu Arg Ser Gln Ile Lys Asp Ala Gln
125 130 135
Leu Gln Asn Ala Arg Cys Val Leu Gln Ile Asp Asn Ala Lys Leu
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Ala Ala Glu Asp Phe Arg Leu Lys Tyr Glu Thr Glu Arg Gly Ile
155 160 165
Arg Leu Thr Val Glu Ala Asp Leu Gln Gly Leu Asn Lys Val Phe
170 175 180
Asp Asp Leu Thr Leu His Lys Thr Asp Leu Glu Ile Gln Ile Glu
185 190 195
Glu Leu Asn Lys Asp Leu Ala Leu Leu Lys Lys Glu His Gln Glu
200 205 210
Glu Val Asp Gly Leu His Lys His Leu Gly Asn Thr Val Asn Val
215 220 225
Glu Val Asp Ala Ala Pro Gly Leu Asn Leu Gly Val Ile Met Asn
230 235 240
Glu Met Arg Gln Lys Tyr Glu Val Met Ala Gln Lys Asn Leu Gln
245 250 255
Glu Ala Lys Glu Gln Phe Glu Arg Gln Thr Ala Val Leu Gln Gln
260 265 270
Gln Val Thr Val Asn Thr Glu Glu Leu Lys Gly Thr Glu Val Gln
275 280 285
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Gln Ser His Leu Ser Met Lys Glu Ser Leu Glu His Thr Leu Glu
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Glu Thr Lys Ala Arg Tyr Ser Ser Gln Leu Ala Asn Leu Gln Ser
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Met Glu Arg Gln Asn Asn Glu Tyr His Ile Leu Leu Asp Ile Lys
350 355 360
Thr Arg Leu Glu Gln Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu
365 370 375
Gly Glu Asp Val Lys Thr Thr Glu Tyr Gln Leu Ser Thr Leu Glu
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<211> 917

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2771481CD1

<400> 54

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Phe Glu Asp Ile Val Ile Val Ile Asp Pro Ser Val Pro Glu Asp	35 40 45
Glu Lys Ile Ile Glu Gln Ile Glu Asp Met Val Thr Thr Ala Ser	50 55 60
Thr Tyr Leu Phe Glu Ala Thr Glu Lys Arg Phe Phe Phe Lys Asn	65 70 75
Val Ser Ile Leu Ile Pro Glu Asn Trp Lys Glu Asn Pro Gln Tyr	80 85 90
Lys Arg Pro Lys His Glu Asn His Lys His Ala Asp Val Ile Val	95 100 105
Ala Pro Pro Thr Leu Pro Gly Arg Asp Glu Pro Tyr Thr Lys Gln	110 115 120
Phe Thr Glu Cys Gly Glu Lys Gly Glu Tyr Ile His Phe Thr Pro	125 130 135
Asp Leu Leu Leu Gly Lys Lys Gln Asn Glu Tyr Gly Pro Pro Gly	140 145 150
Lys Leu Phe Val His Glu Trp Ala His Leu Arg Trp Gly Val Phe	155 160 165
Asp Glu Tyr Asn Glu Asp Gln Pro Phe Tyr Arg Ala Lys Ser Lys	170 175 180
Lys Ile Glu Ala Thr Arg Cys Ser Ala Gly Ile Ser Gly Arg Asn	185 190 195
Arg Val Tyr Lys Cys Gln Gly Gly Ser Cys Leu Ser Arg Ala Cys	200 205 210
Arg Ile Asp Ser Thr Thr Lys Leu Tyr Gly Lys Asp Cys Gln Phe	215 220 225
Phe Pro Asp Lys Val Gln Thr Glu Lys Ala Ser Ile Met Phe Met	230 235 240
Gln Ser Ile Asp Ser Val Val Glu Phe Cys Asn Glu Lys Thr His	245 250 255
Asn Gln Glu Ala Pro Ser Leu Gln Asn Ile Lys Cys Asn Phe Arg	260 265 270
Ser Thr Trp Glu Val Ile Ser Asn Ser Glu Asp Phe Lys Asn Thr	275 280 285
Ile Pro Met Val Thr Pro Pro Pro Pro Pro Val Phe Ser Leu Leu	290 295 300
Lys Ile Ser Gln Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly	305 310 315
Ser Met Gly Gly Lys Asp Arg Leu Asn Arg Met Asn Gln Ala Ala	320 325 330
Lys His Phe Leu Leu Gln Thr Val Glu Asn Gly Ser Trp Val Gly	335 340 345
Met Val His Phe Asp Ser Thr Ala Thr Ile Val Asn Lys Leu Ile	350 355 360
Gln Ile Lys Ser Ser Asp Glu Arg Asn Thr Leu Met Ala Gly Leu	365 370 375
Pro Thr Tyr Pro Leu Gly Gly Thr Ser Ile Cys Ser Gly Ile Lys	380 385 390

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Ile	Ala	Leu	Gly	Arg	Ala	Ala	Asp	Glu	Ala	Val	Ile	Glu	Met	Ser
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Lys	Ile	Thr	Gly	Gly	Ser	His	Phe	Tyr	Val	Ser	Asp	Glu	Ala	Gln
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Thr	Asp	Leu	Ser	Gln	Lys	Ser	Leu	Gln	Leu	Glu	Ser	Lys	Gly	Leu
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Thr	Leu	Asn	Ser	Asn	Ala	Trp	Met	Asn	Asp	Thr	Val	Ile	Ile	Asp
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Ile	Pro	Gly	Thr	Ala	Lys	Val	Gly	Thr	Trp	Ala	Tyr	Asn	Leu	Gln
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Leu	Asp	Asn	Gly	Ala	Gly	Ala	Asp	Ser	Phe	Lys	Asn	Asp	Gly	Val
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Tyr	Ser	Arg	Tyr	Phe	Thr	Ala	Tyr	Thr	Glu	Asn	Gly	Arg	Tyr	Ser
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Leu	Lys	Val	Arg	Ala	His	Gly	Gly	Ala	Asn	Thr	Ala	Arg	Leu	Lys
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Leu	Arg	Pro	Pro	Leu	Asn	Arg	Ala	Ala	Tyr	Ile	Pro	Gly	Trp	Val
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Val	Asn	Gly	Glu	Ile	Glu	Ala	Asn	Pro	Pro	Arg	Pro	Glu	Ile	Asp
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Glu	Asp	Thr	Gln	Thr	Thr	Leu	Glu	Asp	Phe	Ser	Arg	Thr	Ala	Ser
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Gly	Gly	Ala	Phe	Val	Val	Ser	Gln	Val	Pro	Ser	Leu	Pro	Leu	Pro
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Asp	Gln	Tyr	Pro	Pro	Ser	Gln	Ile	Thr	Asp	Leu	Asp	Ala	Thr	Val
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His	Glu	Asp	Lys	Ile	Ile	Leu	Thr	Trp	Thr	Ala	Pro	Gly	Asp	Asn
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Phe	Asp	Val	Gly	Lys	Val	Gln	Arg	Tyr	Ile	Ile	Arg	Ile	Ser	Ala
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Ser	Ile	Leu	Asp	Leu	Arg	Asp	Ser	Phe	Asp	Asp	Ala	Leu	Gln	Val
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Asn	Thr	Thr	Asp	Leu	Ser	Pro	Lys	Glu	Ala	Asn	Ser	Lys	Glu	Ser
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Phe	Ala	Phe	Lys	Pro	Glu	Asn	Ile	Ser	Glu	Glu	Asn	Ala	Thr	His
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Ile	Phe	Ile	Ala	Ile	Lys	Ser	Ile	Asp	Lys	Ser	Asn	Leu	Thr	Ser
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Lys	Val	Ser	Asn	Ile	Ala	Gln	Val	Thr	Leu	Phe	Ile	Pro	Gln	Ala
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Asn	Pro	Asp	Asp	Ile	Asp	Pro	Thr	Pro	Thr	Pro	Thr	Pro	Thr	Pro
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Asp Lys Ser His Asn Ser Gly Val Asn Ile Ser Thr Leu Val Leu
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<211> 780

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<213> Homo sapiens

<220>

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gaggaaaagg cgggtggcaga tacaagagat caagccgatg ggagcagagc atctgtggat 2040
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gagaactcca gggaaatttg agccaattgac aacatgggag ctctctcgat cactcaggag 2280
acactccctcg gaggaaaaga agagtttgtt gccaccactg agagcaccac agagaccaaa 2340
gaaccacaaga aggcaaaaag gtcattccaag gagggaagccg agatggccta caaagacttc 2400
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gcctcagctc cctggggacc ccactccctg ctctaaccac tgectagggtt tttctactag 2580
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<210> 59

<211> 764

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2680109Cb1

<400> 59

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20 25 30
Val Glu Gly Asn Ser Val Ser Ile Thr Cys Tyr Tyr Pro Pro Thr
35 40 45
Ser Val Asn Arg His Thr Arg Lys Tyr Trp Cys Arg Gln Gly Ala
50 55 60
Arg Gly Gly Cys Ile Thr Leu Ile Ser Ser Glu Gly Tyr Val Ser
65 70 75
Ser Lys Tyr Ala Gly Arg Ala Asn Leu Thr Asn Phe Pro Glu Asn
80 85 90
Gly Thr Phe Val Val Asn Ile Ala Gln Leu Ser Gln Asp Asp Ser
95 100 105
Gly Arg Tyr Lys Cys Gly Leu Gly Ile Asn Ser Arg Gly Leu Ser
110 115 120
Phe Asp Val Ser Leu Glu Val Ser Gln Gly Pro Gly Leu Leu Asn
125 130 135
Asp Thr Lys Val Tyr Thr Val Asp Leu Gly Arg Thr Val Thr Ile
140 145 150
Asn Cys Pro Phe Lys Thr Glu Asn Ala Gln Lys Arg Lys Ser Leu
155 160 165
Tyr Lys Gln Ile Gly Leu Tyr Pro Val Leu Val Ile Asp Ser Ser
170 175 180
Gly Tyr Val Asn Pro Asn Tyr Thr Gly Arg Ile Arg Leu Asp Ile
185 190 195

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Gln	Gly	Thr	Gly	Gln	Leu	Leu	Phe	Ser	Val	Val	Ile	Asn	Gln	Leu
				200					205					210
Arg	Leu	Ser	Asp	Ala	Gly	Gln	Tyr	Leu	Cys	Gln	Ala	Gly	Asp	Asp
				215					220					225
Ser	Asn	Ser	Asn	Lys	Lys	Asn	Ala	Asp	Leu	Gln	Val	Leu	Lys	Pro
				230					235					240
Glu	Pro	Glu	Leu	Val	Tyr	Glu	Asp	Leu	Arg	Gly	Ser	Val	Thr	Phe
				245					250					255
His	Cys	Ala	Leu	Gly	Pro	Glu	Val	Ala	Asn	Val	Ala	Lys	Phe	Leu
				260					265					270
Cys	Arg	Gln	Ser	Ser	Gly	Glu	Asn	Cys	Asp	Val	Val	Val	Asn	Thr
				275					280					285
Leu	Gly	Lys	Arg	Ala	Pro	Ala	Phe	Glu	Gly	Arg	Ile	Leu	Leu	Asn
				290					295					300
Pro	Gln	Asp	Lys	Asp	Gly	Ser	Phe	Ser	Val	Val	Ile	Thr	Gly	Leu
				305					310					315
Arg	Lys	Glu	Asp	Ala	Gly	Arg	Tyr	Leu	Cys	Gly	Ala	His	Ser	Asp
				320					325					330
Gly	Gln	Leu	Gln	Glu	Gly	Ser	Pro	Ile	Gln	Ala	Trp	Gln	Leu	Phe
				335					340					345
Val	Asn	Glu	Glu	Ser	Thr	Ile	Pro	Arg	Ser	Pro	Thr	Val	Val	Lys
				350					355					360
Gly	Val	Ala	Gly	Ser	Ser	Val	Ala	Val	Leu	Cys	Pro	Tyr	Asn	Arg
				365					370					375
Lys	Glu	Ser	Lys	Ser	Ile	Lys	Tyr	Trp	Cys	Leu	Trp	Glu	Gly	Ala
				380					385					390
Gln	Asn	Gly	Arg	Cys	Pro	Leu	Leu	Val	Asp	Ser	Glu	Gly	Trp	Val
				395					400					405
Lys	Ala	Gln	Tyr	Glu	Gly	Arg	Leu	Ser	Leu	Leu	Glu	Glu	Pro	Gly
				410					415					420
Asn	Gly	Thr	Phe	Thr	Val	Ile	Leu	Asn	Gln	Leu	Thr	Ser	Arg	Asp
				425					430					435
Ala	Gly	Phe	Tyr	Trp	Cys	Leu	Thr	Asn	Gly	Asp	Thr	Leu	Trp	Arg
				440					445					450
Thr	Thr	Val	Glu	Ile	Lys	Ile	Ile	Glu	Gly	Glu	Pro	Asn	Leu	Lys
				455					460					465
Val	Pro	Gly	Asn	Val	Thr	Ala	Val	Leu	Gly	Glu	Thr	Leu	Lys	Val
				470					475					480
Pro	Cys	His	Phe	Pro	Cys	Lys	Phe	Ser	Ser	Tyr	Glu	Lys	Tyr	Trp
				485					490					495
Cys	Lys	Trp	Asn	Asn	Thr	Gly	Cys	Gln	Ala	Leu	Pro	Ser	Gln	Asp
				500					505					510
Glu	Gly	Pro	Ser	Lys	Ala	Phe	Val	Asn	Cys	Asp	Glu	Asn	Ser	Arg
				515					520					525
Leu	Val	Ser	Leu	Thr	Leu	Asn	Leu	Val	Thr	Arg	Ala	Asp	Glu	Gly
				530					535					540
Trp	Tyr	Trp	Cys	Gly	Val	Lys	Gln	Gly	His	Phe	Tyr	Gly	Glu	Thr
				545					550					555
Ala	Ala	Val	Tyr	Val	Ala	Val	Glu	Glu	Arg	Lys	Ala	Ala	Gly	Ser
				560					565					570
Arg	Asp	Val	Ser	Leu	Ala	Lys	Ala	Asp	Ala	Ala	Pro	Asp	Glu	Lys
				575					580					585
Val	Leu	Asp	Ser	Gly	Phe	Arg	Glu	Ile	Glu	Asn	Lys	Ala	Ile	Gln
				590					595					600
Asp	Pro	Arg	Leu	Phe	Ala	Glu	Glu	Lys	Ala	Val	Ala	Asp	Thr	Arg
				605					610					615
Asp	Gln	Ala	Asp	Gly	Ser	Arg	Ala	Ser	Val	Asp	Ser	Gly	Ser	Ser
				620					625					630
Glu	Glu	Gln	Gly	Gly	Ser	Ser	Arg	Ala	Leu	Val	Ser	Thr	Leu	Val
				635					640					645
Pro	Leu	Gly	Leu	Val	Leu	Ala	Val	Gly	Ala	Val	Ala	Val	Gly	Val
				650					655					660
Ala	Arg	Ala	Arg	His	Arg	Lys	Asn	Val	Asp	Arg	Val	Ser	Ile	Arg
				665					670					675
Ser	Tyr	Arg	Thr	Asp	Ile	Ser	Met	Ser	Asp	Phe	Glu	Asn	Ser	Arg
				680					685					690

Glu	Phe	Gly	Ala	Asn	Asp	Asn	Met	Gly	Ala	Ser	Ser	Ile	Thr	Gln	
				695					700					705	
Glu	Thr	Ser	Leu	Gly	Gly	Lys	Glu	Glu	Phe	Val	Ala	Thr	Thr	Glu	
				710					715					720	
Ser	Thr	Thr	Glu	Thr	Lys	Glu	Pro	Lys	Lys	Ala	Lys	Arg	Ser	Ser	
				725					730					735	
Lys	Glu	Glu	Ala	Glu	Met	Ala	Tyr	Lys	Asp	Phe	Leu	Leu	Gln	Ser	
				740					745					750	
Ser	Thr	Val	Ala	Ala	Glu	Ala	Gln	Asp	Gly	Pro	Gln	Glu	Ala		
				755					760						

<210> 60

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1800311CB1

<400> 60

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ctctggggcg	cttggcagga	ggggtcaccg	tgccaggatgg	aaatttctcc	ttttctctgg	180
agtcagtga	gaagctcaaa	gacctccagg	agccccagga	gccccagggtt	gggaaactca	240
ggaactttgc	accatccct	ggtgaacctg	tggttcccat	cctctgtagc	aacccgaact	300
ttccagaaga	actcaagcct	ctctgcaagg	agcccaatgc	ccaggagata	cttcagaggg	360
gtgaggaaat	cgctgaggac	cggggcacat	gtgaaatctg	tgccatcgct	gacctgtaccg	420
gatgctaggg	gggcttgccc	actgcctgcc	tccccctcgc	agcagggaag	ctcttttctc	480
ctgcagaag	ggccacccat	gatactccac	tcccagcagc	tcaacctacc	ctggtccagt	540
cgggaggagc	agccccggga	ggaactgggt	gactggaggc	ctgcgcccaa	cactgtcctt	600
cctgtccact	tcaaccccc	gctaataaac	cagattccag	agtaaaaaaa	aaaaa	655

<210> 61

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1800311CD1

<400> 61

Met	Asn	Ala	Phe	Leu	Leu	Phe	Ala	Leu	Cys	Leu	Leu	Gly	Ala	Trp	
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Ala	Ala	Leu	Ala	Gly	Gly	Val	Thr	Val	Gln	Asp	Gly	Asn	Phe	Ser	
				20					25					30	
Phe	Ser	Leu	Glu	Ser	Val	Lys	Lys	Leu	Lys	Asp	Leu	Gln	Glu	Pro	
				35					40					45	
Gln	Glu	Pro	Arg	Val	Gly	Lys	Leu	Arg	Asn	Phe	Ala	Pro	Ile	Pro	
				50					55					60	
Gly	Glu	Pro	Val	Val	Pro	Ile	Leu	Cys	Ser	Asn	Pro	Asn	Phe	Pro	
				65					70					75	
Glu	Glu	Leu	Lys	Pro	Leu	Cys	Lys	Glu	Pro	Asn	Ala	Gln	Glu	Ile	
				80					85					90	
Leu	Gln	Arg	Leu	Glu	Glu	Ile	Ala	Glu	Asp	Pro	Gly	Thr	Cys	Glu	
				95					100					105	
Ile	Cys	Ala	Tyr	Ala	Ala	Cys	Thr	Gly	Cys						
				110					115						

<210> 62

<211> 1312

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1804734CB1

<400> 62

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ctgaatttgg caatgacaag gccaggggagc cgagcgtggg tggcagggtgg cgagtgtcct 180
ggtagcaacg gttttgtcag ccatgtctgg tcgaactgct gggctctgct ctcttcactct 240
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acttcaaccc tgcggtgtcc ctggcagcca tgcctgctgg aggcctcaac ctgtgtgatgc 420
tcctcccgta ctgggtctca cagctgctcg gggggatgct cggggctgcc ttggccaagg 480
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cagctcattt cccgcacccc atttcttgcg tgattgcttt gttggggccc tggccacttc 1260
ctgtctctc aagctgacaa ttctcacttt gcaataaata gtcagggttt tc 1312

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<210> 63

<211> 262

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1804734CD1

<400> 63

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Met Ser Gly Glu Gln Ile Ala Met Cys Glu Pro Glu Phe Gly Asn
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Asp Lys Ala Arg Glu Pro Ser Val Gly Gly Arg Trp Arg Val Ser
20     25     30
Trp Tyr Glu Arg Phe Val Gln Pro Cys Leu Val Glu Leu Leu Gly
35     40     45
Ser Ala Leu Phe Ile Phe Ile Gly Cys Leu Ser Val Ile Glu Asn
50     55     60
Gly Thr Asp Thr Gly Leu Leu Gln Pro Ala Leu Ala His Gly Leu
65     70     75
Ala Leu Gly Leu Val Ile Ala Thr Leu Gly Asn Ile Ser Gly Gly
80     85     90
His Phe Asn Pro Ala Val Ser Leu Ala Ala Met Leu Ile Gly Gly
95     100    105
Leu Asn Leu Val Met Leu Leu Pro Tyr Trp Val Ser Gln Leu Leu
110    115    120
Gly Gly Met Leu Gly Ala Ala Leu Ala Lys Ala Val Ser Pro Glu
125    130    135
Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala Phe Val Thr Val Gln
140    145    150
Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala Glu Ile Ile Leu
155    160    165
Thr Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala Ile Asn Glu
170    175    180
Lys Thr Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe Ala Val
185    190    195
Thr Val Asp Ile Leu Ala Gly Gly Pro Val Ser Gly Gly Cys Met
200    205    210
Asn Pro Ala Arg Ala Phe Gly Pro Ala Val Val Ala Asn His Trp

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Asn Phe His Trp	215	Tyr Trp Leu Gly	220	Pro Leu Leu Ala Gly	225
Leu Val Gly Leu	230	Ile Arg Cys Phe	235	Ile Gly Asp Gly Lys	240
Arg Leu Ile Leu	245	Lys Ala Arg	250		255
	260				

<210> 64
 <211> 1556
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3231154CB1

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 ctgaggagct caccctgccaa tccagctgag gctgggcaga ggtgggtgag aagaggggaaa 180
 attgcaggga cctccagttg ggccaggcca gaagctgctg tagctttaac cagacagctc 240
 agacctgtct ggaggctgcc agtgacaggt taggtttagg gcagagaaga agcaagacca 300
 tggctgggaa gatgtggcct gtgtttgtga cactctgtgc agtcagggtg accgtcgatg 360
 ccactctgtg ggaaactccg caggacgttc ttccgggttc gcagggaaaag agtgtaaccc 420
 tgcctcgac ctaccacact tccacctca gtcgagaggg acttattcaa tgggataagc 480
 tctctctcgc ctatcaggaa aggggtggtca tctggcgttt ttcaaacaaa aactacatcc 540
 atggtgagct ttataagaat cgggtcagca tatccacaa tctgtagcag tccgatgcct 600
 ccatcacat tgatcagctg acctaggctg acaacggcac ctacagtgct tctgtctcgc 660
 tgatgtcaga cctggagggc aacaccaagt cactgtctcg cctgttggtc ctctgtgccac 720
 cctccaaaac agaattgggc atcgaggag agaccataat tgggaacaaa atccagctga 780
 cctgcacatc aaaggagggc tcaccaaccc ctacgtacag ctggaagagc tacaacatcc 840
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 acaggcaaga agagcagagg agcactgggc gtgaatcccc ggaccacctc gaccagtga 1260
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 tccctctctc ttctcaagcc ctgttctctc gtccctccat ccagacatt gatggggaca 1380
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 gatctctgtg acctcactgt cctgtgaagt aacctctct ggctgtgaca cctggtgcgg 1500
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<210> 65
 <211> 319
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3231154CD1

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 20 25 30
 Leu Arg Ala Ser Gln Gly Lys Ser Val Thr Leu Pro Cys Thr Tyr
 35 40 45
 His Thr Ser Thr Ser Ser Arg Glu Gly Leu Ile Gln Trp Asp Lys
 50 55 60
 Leu Leu Leu Thr His Thr Glu Arg Val Val Ile Trp Pro Phe Ser
 65 70 75
 Asn Lys Asn Tyr Ile His Gly Glu Leu Tyr Lys Asn Arg Val Ser

	80	85	90
Ile Ser Asn Asn Ala	Glu Gln Ser Asp	Ala Ser Ile Thr	Ile Asp
95	100	105	
Gln Leu Thr Met Ala	Asp Asn Gly Thr	Tyr Glu Cys Ser Val	Ser
110	115	120	
Leu Met Ser Asp Leu	Glu Gly Asn Thr	Lys Ser Arg Val Arg	Leu
125	130	135	
Leu Val Leu Val Pro	Ser Lys Pro	Glu Cys Gly Ile Glu	Gly
140	145	150	
Glu Thr Ile Ile Gly	Asn Asn Ile Gln	Leu Thr Cys Gln Ser	Lys
155	160	165	
Glu Gly Ser Pro Thr	Pro Gln Tyr Ser	Trp Lys Arg Tyr Asn	Ile
170	175	180	
Leu Asn Gln Glu Gln	Pro Leu Ala Gln	Pro Ala Ser Gly Gln	Pro
185	190	195	
Val Ser Leu Lys Asn	Ile Ser Thr Asp	Thr Ser Gly Tyr Tyr	Ile
200	205	210	
Cys Thr Ser Ser Asn	Glu Glu Gly Thr	Gln Phe Cys Asn Ile	Thr
215	220	225	
Val Ala Val Arg Ser	Pro Ser Met Asn	Val Ala Leu Tyr Val	Gly
230	235	240	
Ile Ala Val Gly Val	Val Ala Ala Leu	Ile Ile Ile Gly Ile	Ile
245	250	255	
Ile Tyr Cys Cys Cys	Cys Arg Gly Lys	Asp Asp Asn Thr Glu	Asp
260	265	270	
Lys Glu Asp Ala Arg	Pro Asn Arg Glu	Ala Tyr Glu Glu Pro	Pro
275	280	285	
Glu Gln Leu Arg Glu	Leu Ser Arg Glu	Arg Glu Glu Glu Asp	Asp
290	295	300	
Tyr Arg Gln Glu Glu	Gln Arg Ser Thr	Gly Arg Glu Ser Pro	Asp
305	310	315	
His Leu Asp Gln			

<210> 66

<211> 3476

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 210095.11

<400> 66

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agagtgcgtg	taccctggca	ggggcttctg	ctcacagcct	cactcttaac	ctcttggaac	180
cgcgccacca	ctgcccagct	cactactgaa	tccatgccat	tcaatgttgc	agagggggaag	240
gaggtttctt	tccttgtcca	caatctgccc	cagcaacttt	ttggctacag	ctggtacaaa	300
ggggaaagag	tggatggcaa	cggtcaaat	gtaggatatg	caataggaac	tcacaagct	360
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tcacagaaca	actccaacc	tgtggaggac	aaggatgctg	tggcctttac	ctgtgaacct	600
gagactcagg	acacaaacct	cctgtgtgtg	ataaacaatc	agagcctccc	ggtcagctcc	660
aggctgcagc	tgtccaatgg	caacaggacc	ctcactctac	tcagtgtcac	aaggaatgac	720
acaggagccct	atgagtgtga	aatacagaac	ccagtgtagt	cgaaccgcag	tgaccagctc	780
accttgaatg	tcactatggt	ccgggacaac	cccaccattt	cccttcagca	caactattac	840
cgctcagggg	caaacctcag	cctctcctgc	tatgcagcct	ctaaccacc	tgcacagtac	900
tcctggctta	tcaatggaac	attccagcaa	agcacacaag	agctctttat	ccctaaccac	960
actgtgaaata	atagttgatc	ctatacctgc	cagcccaata	actcagtcac	tggtgtcaac	1020
aggacacacag	tcaagcagat	catagctcact	gagctaagtc	cagtagtagc	aaagcccccac	1080
atcaaaagcca	gaaagacacac	agtcacagga	gataaggagt	ctgtgaacct	gacctgtccc	1140
acaaatgaca	ctggaaatctc	catccgttgg	ttcttcaaaa	accagagctc	cccgctccctg	1200
gagaggtgag	agctgtccca	gggcaacacc	acctcagca	taaacctgtg	caagaggagag	1260
gatgctggga	cgtatttggt	tgaggtcttc	aaccacaatca	gtaagaacca	aagcgacccc	1320

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 ttttttctgc attttcgagg gacccggcagc gcaagcgacc agcgtgatct cacagagcac 1500
 aaacctctga tctccaccca cactcagga cactccaatg accacccta caagatgaat 1560
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 taaaacttgc ttgtcagagc actcattcct tcccaccccc agtccgttcc tatcactcta 2040
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<210> 67
 <211> 1237
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <223> Incyte ID No: 2719813CB1

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 cagtgcagag tcacactggt gctacgaggt tcaagccagag tcttccaaact accctgtctt 180
 ggttcacagt aagtgggggt gaaactgcca gaaggacccg cagtccccca tcaacatcgt 240
 caccaccaag gcaaaaggtgt acaaaaaact gggacgcttc ttcttctctg gtcacgataa 300
 gaagcaaacg tggactgtcc aaaataacgg gcactcagtg atgatgttc tggagaacaa 360
 ggccagcatt tcttgaggag gactgcctgc cccataccag gccaaacagt tgcacctgca 420
 ctggttcgac ttgccatata agggctcggg gccacagctc gatggggagc actttgccat 480
 ggagatgcac atagtacaat agaaagagaa ggggacatcg aggaatgtga aagaggccca 540
 ggacccctgaa gacgaaattg cgggtgctggc ctttctggtg gaggctgaaa cccagggtgaa 600
 cgagggtctc cagccactgg tggaggcact gtctaatatc gtctataatc agatgagcac 660
 tacgatggca gagagcagc tgttggacct gctccccaa gaggagaaac tagggcacta 720
 ctctcgtcac ctgggctcac tcaccacacc gacctcgcat gagaaggtcg tctggactgt 780
 ttccggggag cccatcagc ttacagaga acagatcct gcaattctg agaatgtta 840
 ctacgacaa gaaacagac tgagcatgaa ggacaatgtc agggccctgc agcagctggg 900
 gcagcgcaag gtgataaagt ccggggcccc cctgctcgtc ggcgcgcttc ctgcgatgat ggcctcactc 1020
 cctctgtggc ccatctgtgt cctcagctct ccaagtcca gcttccggt ccttagcctt 1080
 ccagggtggg accttaggca tgattaaaaat atggacataat ttttgagaaa acctttctca 1140

agtggtgtttt tagccttcca caactacccc accctgtccc cctccacccca cccctgttcc 1200
 tctgtttcca gggcgggggc ttttaaggcca ggagatt 1237

<210> 68
 <211> 312
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2719813CD1

<400> 68
 Met Arg Met Leu Leu Ala Leu Leu Ala Leu Ser Ala Ala Arg Pro
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 Ser Ala Ser Ala Glu Ser His Trp Cys Tyr Glu Val Gln Ala Glu
 20 25 30
 Ser Ser Asn Tyr Pro Cys Leu Val Pro Val Lys Trp Gly Gly Asn
 35 40 45
 Cys Gln Lys Asp Arg Gln Ser Pro Ile Asn Ile Val Thr Thr Lys
 50 55 60
 Ala Lys Val Asp Lys Lys Leu Gly Arg Phe Phe Phe Ser Gly Tyr
 65 70 75
 Asp Lys Lys Gln Thr Trp Thr Val Gln Asn Asn Gly His Ser Val
 80 85 90
 Met Met Leu Leu Glu Asn Lys Ala Ser Ile Ser Gly Gly Gly Leu
 95 100 105
 Pro Ala Pro Tyr Gln Ala Lys Gln Leu His Leu His Trp Ser Asp
 110 115 120
 Leu Pro Tyr Lys Gly Ser Glu His Ser Leu Asp Gly Glu His Phe
 125 130 135
 Ala Met Glu Met His Ile Val His Glu Lys Glu Lys Gly Thr Ser
 140 145 150
 Arg Asn Val Lys Glu Ala Gln Asp Pro Glu Asp Glu Ile Ala Val
 155 160 165
 Leu Ala Phe Leu Val Glu Ala Gly Thr Gln Val Asn Glu Gly Phe
 170 175 180
 Gln Pro Leu Val Glu Ala Leu Ser Asn Ile Pro Lys Pro Glu Met
 185 190 195
 Ser Thr Thr Met Ala Glu Ser Ser Leu Leu Asp Leu Leu Pro Lys
 200 205 210
 Glu Glu Lys Leu Arg His Tyr Phe Arg Tyr Leu Gly Ser Leu Thr
 215 220 225
 Thr Pro Thr Cys Asp Glu Lys Val Val Trp Thr Val Phe Arg Glu
 230 235 240
 Pro Ile Gln Leu His Arg Glu Gln Ile Leu Ala Phe Ser Gln Lys
 245 250 255
 Leu Tyr Tyr Asp Lys Glu Gln Thr Val Ser Met Lys Asp Asn Val
 260 265 270
 Arg Pro Leu Gln Gln Leu Gly Gln Arg Thr Val Ile Lys Ser Gly
 275 280 285
 Ala Pro Gly Arg Pro Leu Pro Trp Ala Leu Pro Ala Leu Leu Gly
 290 295 300
 Pro Met Leu Ala Cys Leu Leu Ala Gly Phe Leu Arg
 305 310

<210> 69
 <211> 973
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2886583CB1

<400> 69

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ctggagcccc catctctctg cggcagatgt tcgagcctgt gagctgcacc ttacagtgacc 180
tgctgggtga cagagagtc cgggaggccg ttctgataca cccagtcctg gaaacagcgc 240
ctcgggatgc ccagctgac aaggagctgg ggcctgcggc gctctatgct gtgaataccc 300
actgccacgc ggaccacatt acaggctcgg ggcctgcctc ttccctctcc cctggctgcc 360
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ccatccgctt cgggcgcttc gcgttgga gaaggccag cccctggccac accccaggct 480
gtgtcacctt cgtctcta gaccacagca tggccttcac tggagatgcc ctgttgatcc 540
gtgggtgtgg gcggacagac ttccagcaag gctgtgccaa gacctgtgac cactcggtcc 600
atgaaaagat cttcacact ccaggagact gctctgata cctctgcacc gattaccatg 660
ggttcacagt gtccacgctg gaggaggaga ggaactctga cctcggctcc accctcagct 720
gtgaggagtt tgtcaaaatc atgggcaacc tgaactgcc taaacctcag cagatagact 780
ttcgtgttcc agccaacatg cgtgtgtggg tgcagacacc cactgcctga tctcacttct 840
gcagatgct cccatccact attaatgcac tagtggtggg gagaggcgcg caatgacact 900
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<210> 70
<211> 254
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2886583CD1

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<400> 70
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Arg Gly Gly Ser Gly Ala Pro Ile Leu Leu Arg Gln Met Phe Glu
20 25 30
Pro Val Ser Cys Thr Phe Thr Tyr Leu Leu Gly Asp Arg Glu Ser
35 40 45
Arg Glu Ala Val Leu Ile Asp Pro Val Leu Glu Thr Ala Pro Arg
50 55 60
Asp Ala Gln Leu Ile Lys Glu Leu Gly Leu Arg Leu Leu Tyr Ala
65 70 75
Val Asn Thr His Cys His Ala Asp His Ile Thr Gly Ser Gly Leu
80 85 90
Leu Arg Ser Leu Leu Pro Gly Cys Gln Ser Val Ile Ser Arg Leu
95 100 105
Ser Gly Ala Gln Ala Asp Leu His Ile Glu Asp Gly Asp Ser Ile
110 115 120
Arg Phe Gly Arg Phe Ala Leu Glu Thr Arg Ala Ser Pro Gly His
125 130 135
Thr Pro Gly Cys Val Thr Phe Val Leu Asn Asp His Ser Met Ala
140 145 150
Phe Thr Gly Asp Ala Leu Leu Ile Arg Gly Cys Gly Arg Thr Asp
155 160 165
Phe Gln Gln Gly Cys Ala Lys Thr Leu Tyr His Ser Val His Glu
170 175 180
Lys Ile Phe Thr Leu Pro Gly Asp Cys Leu Ile Tyr Pro Ala His
185 190 195
Asp Tyr His Gly Phe Thr Val Ser Thr Val Glu Glu Glu Arg Thr
200 205 210
Leu Asn Pro Arg Leu Thr Leu Ser Cys Glu Glu Phe Val Lys Ile
215 220 225
Met Gly Asn Leu Asn Leu Pro Lys Pro Gln Gln Ile Asp Phe Ala
230 235 240
Val Pro Ala Asn Met Arg Cys Gly Val Gln Thr Pro Thr Ala
245 250

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<210> 71
<211> 643
<212> DNA

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 025685.3

<400> 71

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tcagcagctg	tcagaaaacaa	tttaacatgt	tgaacagaca	atatctctaaa	atactgatga	180
atcttgcatt	aatataaatt	ttgggttttt	ttctttttcc	tgctgtataaa	ctctctggcca	240
tgcaaaactct	caagaggcca	atatattcct	ggccatgttt	gaatgagcct	cttaaaaataa	300
acttgagacc	atgcaaatgc	cagcagctta	atggatttca	tggaaatgaaa	taccgttgatt	360
aactcatagc	tacatatcat	tgcataaatg	ggattttatct	ttttttctcac	ttatttttttg	420
ctgtgaaagt	cgaggggcatg	caagagtttc	tcttccagaa	gccaggaggga	gaacgaaggt	480
cctaagtctg	tactattcca	ccctttggac	gcctcatcca	ggacgcagag	gactctaggt	540
ttaacattgt	gtacaaaaca	gaacctgtta	atcacattaa	agcacatag	tatatattctt	600
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<210> 72

<211> 2879

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1808144CB1

<400> 72

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aagaagtgatt	caccacatag	ttgcataaggt	cttcaacttg	ccacagccaa	cagaaaaaatc	180
aaaatgattg	aaacctgttg	gaatcagtat	attgtggcca	ggccagtgta	ttctacaaat	240
gcttttgagg	aaaatcataa	aaagacagga	agacatcata	agacattctt	ggatcatctc	300
aaagtgtgtg	gtactgttgt	cccacaaaag	gccaaagaaa	ttgtctctct	tttgtctccc	360
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ggatcatgca	caggagtgat	ggcgttaact	caaggtttag	catttgtctc	gctgtgtcac	480
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gcagtttcag	gagcagctg	aaaagcagtc	ccagatcgca	atgcaactac	tttgggattg	660
cccaacaact	cgaataaatt	ttcactactg	gatgacgaga	gggtgagggg	ggcgccggcg	720
gcacagctca	cagtgtcttc	tggaaatcat	cagtgtgctt	ttgggattct	gcggatttga	780
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catgtttttg	tttcccaatt	caaatctcat	tttcagtgtg	cagtcocctc	acacactgat	900
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gcagaccttg	tgacagctct	gattgtctct	ttgtgtgtat	ccattgttaa	agaataaat	1020
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gcagcaggtg	tatctcacgg	ctgtgacttt	aaaaaacaggt	ttaaagcttg	ttgttttggg	1140
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ctctattccc	tcaaatacga	ttatccactt	gatggcaatc	aggagttaat	agccttggga	1320
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accataaaaag	attctgacata	agagctggac	aaacaatcaga	tagaagactc	ggaccagcca	2040
atacaatacca	cagacctgcc	tttccacatt	gactgggaat	atgatcttcc	tctcaaacatt	2100
gaggtcccca	aaatcagcct	ccacagcctc	attctcgact	tttcagcagct	gtctcttctt	2160
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gatgtgtgata togttggaaac tgatgatgac ttcattgaga agcttaacgc gtatgaattt 2280
tttgatgggtg aagtgaanaag ctcaatatatt ttcttaacaa tccatgatgc tggtttgcatt 2340
attttgatga agaaagatta cagtacttca aagtttaatc ccagtcaggga aaaagatgga 2400
aaaatttgatt ttaccataaaa tacaaatgga ggattacgta atcggtgata tgaggtgcca 2460
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tgacagaata tgtttcaaac ttgggaacaa gatggttcta gcatgggata tttttcacat 2640
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gaaaattatt ttgttcatac atatttttgt agcactgaca gatttccatc ctagtcaacta 2760
cattcatgca taggtttagc agtatagtgg cgccactgtt ttgaattcta taatttatac 2820
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<210> 73

<211> 764

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1808144CD1

<400> 73

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Tyr Ser Thr Asn Ala Phe Glu Glu Asn His Lys Lys Thr Gly Arg
20 25 30
His His Lys Thr Phe Leu Asp His Leu Lys Val Cys Cys Ser Cys
35 40 45
Ser Pro Gln Lys Ala Lys Arg Ile Val Leu Ser Leu Phe Pro Ile
50 55 60
Ala Ser Trp Leu Pro Ala Tyr Arg Leu Lys Glu Trp Leu Leu Ser
65 70 75
Asp Ile Val Ser Gly Ile Ser Thr Gly Ile Val Ala Val Leu Gln
80 85 90
Gly Leu Ala Phe Ala Leu Leu Val Asp Ile Pro Pro Val Tyr Gly
95 100 105
Leu Tyr Ala Ser Phe Phe Pro Ala Ile Ile Tyr Leu Phe Phe Gly
110 115 120
Thr Ser Arg His Ile Ser Val Gly Pro Phe Pro Ile Leu Ser Met
125 130 135
Met Val Gly Leu Ala Val Ser Gly Ala Val Ser Lys Ala Val Pro
140 145 150
Asp Arg Asn Ala Thr Thr Leu Gly Leu Pro Asn Asn Ser Asn Asn
155 160 165
Ser Ser Leu Leu Asp Asp Glu Arg Val Arg Val Ala Ala Ala Ala
170 175 180
Ser Val Thr Val Leu Ser Gly Ile Ile Gln Leu Ala Phe Gly Ile
185 190 195
Leu Arg Ile Gly Phe Val Val Ile Tyr Leu Ser Glu Ser Leu Ile
200 205 210
Ser Gly Phe Thr Thr Ala Ala Ala Val His Val Leu Val Ser Gln
215 220 225
Leu Lys Phe Ile Phe Gln Leu Thr Val Pro Ser His Thr Asp Pro
230 235 240
Val Ser Ile Phe Lys Val Leu Tyr Ser Val Phe Ser Gln Ile Glu
245 250 255
Lys Thr Asn Ile Ala Asp Leu Val Thr Ala Leu Ile Val Leu Leu
260 265 270
Val Val Ser Ile Val Lys Glu Ile Asn Gln Arg Phe Lys Asp Lys
275 280 285
Leu Pro Val Pro Ile Pro Ile Glu Phe Ile Met Thr Val Ile Ala
290 295 300
Ala Gly Val Ser Tyr Gly Cys Asp Phe Lys Asn Arg Phe Lys Val
305 310 315
Ala Val Val Gly Asp Met Asn Pro Gly Phe Gln Pro Pro Ile Thr
320 325 330

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Pro	Asp	Val	Glu	Thr	Phe	Gln	Asn	Thr	Val	Gly	Asp	Cys	Phe	Gly
				335										345
Ile	Ala	Met	Val	Ala	Phe	Ala	Val	Ala	Phe	Ser	Val	Ala	Ser	Val
				350										360
Tyr	Ser	Leu	Lys	Tyr	Asp	Tyr	Pro	Leu	Asp	Gly	Asn	Gln	Glu	Leu
				365										375
Ile	Ala	Leu	Gly	Leu	Gly	Asn	Ile	Val	Cys	Gly	Val	Phe	Arg	Gly
				380										390
Phe	Ala	Gly	Ser	Thr	Ala	Leu	Ser	Arg	Ser	Ala	Val	Gln	Glu	Ser
				395										405
Thr	Gly	Gly	Lys	Thr	Gln	Ile	Ala	Gly	Leu	Ile	Gly	Ala	Ile	Ile
				410										420
Val	Leu	Ile	Val	Val	Leu	Ala	Ile	Gly	Phe	Leu	Leu	Ala	Pro	Leu
				425										435
Gln	Lys	Ser	Val	Leu	Ala	Ala	Leu	Ala	Leu	Gly	Asn	Leu	Lys	Gly
				440										450
Met	Leu	Met	Gln	Phe	Ala	Glu	Ile	Gly	Arg	Leu	Trp	Arg	Lys	Asp
				455										465
Lys	Tyr	Asp	Cys	Leu	Ile	Trp	Ile	Met	Thr	Phe	Ile	Phe	Thr	Ile
				470										480
Val	Leu	Gly	Leu	Gly	Leu	Gly	Leu	Ala	Ala	Ser	Val	Ala	Phe	Gln
				485										495
Leu	Leu	Thr	Ile	Val	Phe	Arg	Thr	Gln	Phe	Pro	Lys	Cys	Ser	Thr
				500										510
Leu	Ala	Asn	Ile	Gly	Arg	Thr	Asn	Ile	Tyr	Lys	Asn	Lys	Lys	Asp
				515										525
Tyr	Tyr	Asp	Met	Tyr	Glu	Pro	Glu	Gly	Val	Lys	Ile	Phe	Arg	Cys
				530										540
Pro	Ser	Pro	Ile	Tyr	Phe	Ala	Asn	Ile	Gly	Phe	Phe	Arg	Arg	Lys
				545										555
Leu	Ile	Asp	Ala	Val	Gly	Phe	Ser	Pro	Leu	Arg	Ile	Leu	Arg	Lys
				560										570
Arg	Asn	Lys	Ala	Leu	Arg	Lys	Ile	Arg	Lys	Leu	Gln	Lys	Gln	Gly
				575										585
Leu	Leu	Gln	Val	Thr	Pro	Lys	Gly	Phe	Ile	Cys	Thr	Val	Asp	Thr
				590										600
Ile	Lys	Asp	Ser	Asp	Glu	Glu	Leu	Asp	Asn	Asn	Gln	Ile	Glu	Val
				605										615
Leu	Asp	Gln	Pro	Ile	Asn	Thr	Thr	Asp	Leu	Pro	Phe	His	Ile	Asp
				620										630
Trp	Asn	Asp	Asp	Leu	Pro	Leu	Asn	Ile	Glu	Val	Pro	Lys	Ile	Ser
				635										645
Leu	His	Ser	Leu	Ile	Leu	Asp	Phe	Ser	Ala	Val	Ser	Phe	Leu	Asp
				650										660
Val	Ser	Ser	Val	Arg	Gly	Leu	Lys	Ser	Ile	Leu	Gln	Glu	Phe	Ile
				665										675
Arg	Ile	Lys	Val	Asp	Val	Tyr	Ile	Val	Gly	Thr	Asp	Asp	Asp	Phe
				680										690
Ile	Glu	Lys	Leu	Asn	Arg	Tyr	Glu	Phe	Phe	Asp	Gly	Glu	Val	Lys
				695										705
Ser	Ser	Ile	Phe	Phe	Leu	Thr	Ile	His	Asp	Ala	Val	Leu	His	Ile
				710										720
Leu	Met	Lys	Lys	Asp	Tyr	Ser	Thr	Ser	Lys	Phe	Asn	Pro	Ser	Gln
				725										735
Glu	Lys	Asp	Gly	Lys	Ile	Asp	Phe	Thr	Ile	Asn	Thr	Asn	Gly	Gly
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 <211> 3503
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 <213> Homo sapiens

 <220>
 <221> misc_feature

<223> Incyte ID No: 201356.1

<400> 74

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<210> 75

<211> 1575

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 978178.7

<400> 75

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<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 237563.31

<220>

<221> unsure

<222> 2208

<223> a, t, c, g, or other

<400> 76

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<210> 77

<211> 2842

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1100412.5

<400> 77

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<211> 2892

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1100412.4

<400> 78

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<211> 1244

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2101663CB1

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<212> PRT

<213> Homo sapiens

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35 40 45
Lys Pro Ile Ser Val Ser Tyr Asn Pro Ala Thr Ala Lys Glu Ile
50 55 60
Ile Asn Val Gly His Ser Phe His Val Asn Phe Glu Asp Asn Asp
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Asn Arg Ser Val Leu Lys Gly Gly Pro Phe Ser Asp Ser Tyr Arg
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Leu Phe Gln Phe His Phe His Trp Gly Ser Thr Asn Glu His Gly
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 140 145 150
 Val Gly Glu Ala Asn Pro Lys Leu Gln Lys Val Leu Asp Ala Leu
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 Gln Ala Ile Lys Thr Lys Gly Lys Arg Ala Pro Phe Thr Asn Phe
 170 175 180
 Asp Pro Ser Thr Leu Leu Pro Ser Ser Leu Asp Phe Trp Thr Tyr
 185 190 195
 Pro Gly Ser Leu Thr His Pro Pro Leu Tyr Glu Ser Val Thr Trp
 200 205 210
 Ile Ile Cys Lys Glu Ser Ile Ser Val Ser Ser Glu Gln Leu Ala
 215 220 225
 Gln Phe Arg Ser Leu Leu Ser Asn Val Glu Gly Asp Asn Ala Val
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 <213> Homo sapiens

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 35 40 45
 Ala Gln Arg Ala Gln Pro Tyr Gly Ile Thr Ser Pro Gly Ile Phe
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 Ala Ser Ser Gln Pro Gly Gln Gly Asn Ile Gln Met Ile Asn Pro
 65 70 75
 Ser Val Gly Thr Ala Val Met Asn Phe Lys Glu Glu Ala Lys Ala
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 95 100 105
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 Gly Phe Ala Ser Thr Ala Val Ile Gly Gly Tyr Pro Phe Trp Gly
 125 130 135
 Gly Leu Ser Phe Ile Ile Ser Gly Ser Leu Ser Val Ser Ala Ser
 140 145 150
 Lys Glu Leu Ser Arg Cys Leu Val Lys Gly Ser Leu Gly Met Asn
 155 160 165
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 Val Asp Met Cys Ile Asn Gly Val Ala Gly Gln Asp Tyr Trp Ala
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 200 205 210
 Leu Leu Glu Phe Phe Val Ala Cys Ala Thr Ala His Phe Ala Asn
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 Gln Ala Asn Thr Thr Thr Asn Met Ser Val Leu Val Ile Pro Asn
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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 1543330CB1

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 <211> 412

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1543330CD1

<400> 87

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Ile Glu Asp Val Ser Arg Glu Phe Val Glu Glu Phe Ile Trp Pro
          65          70          75
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Thr Ser Leu Ala Arg Pro Cys Ile Ala Arg Lys Gln Val Glu Ile
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Tyr Asn Arg Phe Lys Gly Arg Asn Asp Leu Met Glu Tyr Ala Lys
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Met Asp Glu Asn Leu Met His Ile Ser Tyr Glu Ala Gly Ile Leu
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Lys Phe Ala Glu Leu Val Tyr Thr Gly Phe Trp His Ser Pro Glu
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 <222> 1171
 <223> a, t, c, g, or other

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3152

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 <213> Homo sapiens

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 Lys Glu Tyr Leu Glu Arg His Val Pro Gly Ala Ser Phe Phe Asp
 50 55 60
 Ile Glu Glu Cys Arg Asp Thr Ala Ser Pro Tyr Glu Met Met Leu
 65 70 75
 Pro Ser Glu Ala Gly Phe Ala Glu Tyr Val Gly Arg Leu Gly Ile
 80 85 90
 Ser Asn His Thr His Val Val Val Tyr Asp Gly Glu His Leu Gly
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 Ser Phe Tyr Ala Pro Arg Val Trp Trp Met Phe Arg Val Phe Gly
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 His Arg Thr Val Ser Val Leu Asn Gly Gly Phe Arg Asn Trp Leu
 125 130 135
 Lys Glu Gly His Pro Val Thr Ser Glu Pro Ser Arg Pro Glu Pro
 140 145 150
 Ala Val Phe Lys Ala Thr Leu Asp Arg Ser Leu Leu Lys Thr Tyr
 155 160 165

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			185						190					195
Asp	Ala	Val	Gly	Leu	Asp	Ser	Gly	His	Ile	Arg	Gly	Ala	Val	Asn
			200						205					210
Met	Pro	Phe	Met	Asp	Phe	Leu	Thr	Glu	Asp	Gly	Phe	Glu	Lys	Gly
			215						220					225
Pro	Glu	Glu	Leu	Arg	Ala	Leu	Phe	Gln	Thr	Lys	Lys	Val	Asp	Leu
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Ser	Gln	Pro	Leu	Ile	Ala	Thr	Cys	Arg	Lys	Gly	Val	Thr	Ala	Cys
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His	Val	Ala	Leu	Ala	Ala	Tyr	Leu	Cys	Gly	Lys	Pro	Asp	Val	Ala
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Val	Tyr	Asp	Gly	Ser	Trp	Ser	Glu	Trp	Phe	Arg	Arg	Ala	Pro	Pro
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<211> 1860

<212> DNA

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<220>

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<223> Incyte ID No: 343502.10

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<211> 1711

<212> DNA

<213> Homo sapiens

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<210> 93
 <211> 300
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 1635966CD1

<400> 93
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 Arg Lys Ser Val Thr Gly Glu Ile Val Leu Ile Thr Gly Ala Gly
 35 40 45
 His Gly Ile Val Arg Leu Thr Ala Tyr Glu Phe Ala Lys Leu Lys
 50 55 60
 Ser Lys Leu Val Leu Trp Asp Ile Asn Lys His Gly Leu Glu Glu
 65 70 75
 Thr Ala Ala Lys Cys Lys Gly Leu Gly Ala Lys Val His Thr Phe
 80 85 90
 Val Val Asp Cys Ser Asn Arg Glu Asp Ile Tyr Ser Ser Ala Lys
 95 100 105
 Lys Val Lys Ala Glu Ile Gly Asp Val Ser Ile Leu Val Asn Asn
 110 115 120
 Ala Gly Val Val Tyr Thr Ser Asp Leu Phe Ala Thr Gln Asp Pro
 125 130 135
 Gln Ile Glu Lys Thr Phe Glu Val Asn Val Leu Ala His Phe Trp
 140 145 150
 Thr Thr Lys Ala Phe Leu Pro Ala Met Thr Lys Asn Asn His Gly

His Ile Val Thr	155	Val Ala Ser Ala Ala	160	Gly His Val Ser Val	165
Phe Leu Leu Ala	170	Tyr Cys Ser Ser Lys	175	Phe Phe Ala Ala Val Gly	180
His Lys Thr Leu	185	Thr Asp Glu Leu Ala	190	Ala Leu Gln Ile Thr Gly	195
Val Lys Thr Thr	200	Cys Leu Cys Pro Asn	205	Phe Val Asn Thr Gly Phe	210
Ile Lys Asn Pro	215	Ser Thr Ser Leu Gly	220	Pro Thr Leu Glu Pro Glu	225
Glu Val Val Asn	230	Arg Leu Met His Gly	235	Ile Leu Thr Glu Gln Lys	240
Met Ile Phe Ile	245	Pro Ser Ser Ile Ala	250	Phe Leu Thr Thr Leu Glu	255
Arg Ile Leu Pro	260	Glu Arg Phe Leu Ala	265	Val Leu Lys Arg Lys Ile	270
Ser Val Lys Phe	275	Asp Ala Val Ile Gly	280	Tyr Lys Met Lys Ala Gln	285
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<210> 94

<211> 2361

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 2054053CBI

<400> 94

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<210> 97
 <211> 860
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1422432CB1

<220>
 <221> unsure
 <222> 205
 <223> a, t, c, g, or other

<400> 97
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 ttctgctctaa aaacattaca agttagtcca tgtcatgcca gatagctgaa ggcagctcac 180

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tgatgccctg gagatgtcac agattctctg cagagccatg gtcccaggct tcccaaaagt 780
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<210> 98

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1422432CD1

<400> 98

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 20          25          30
Gly Glu Leu Lys Val Leu Met Glu Lys Glu Leu Pro Gly Phe Leu
 35          40          45
Gln Ser Gly Lys Asp Lys Asp Ala Val Asp Lys Leu Leu Lys Asp
 50          55          60
Leu Asp Ala Asn Gly Asp Ala Gln Val Asp Phe Ser Glu Phe Ile
 65          70          75
Val Phe Val Ala Ala Ile Thr Ser Ala Cys His Lys Tyr Phe Glu
 80          85          90
Lys Ala Gly Leu Lys
 95

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<210> 99

<211> 1498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 409895.2

<400> 99

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<210> 100
<211> 1138
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 4874364CB1

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gttateccatg gacctgtgct ttgctgagca actgggaaaa aattgaacag ttccatagca 240
gaccagatga cattgtgata gccacttacc tactacttgg gttagtgtgaa 300
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<210> 101
<211> 296
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 4874364CD1

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<400> 101
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20 25 30
Ile Glu Gln Phe His Ser Arg Pro Asp Asp Ile Val Ile Ala Thr
35 40 45
Tyr Pro Lys Ser Gly Thr Thr Trp Val Ser Glu Ile Ile Asp Met
50 55 60
Ile Leu Asn Asp Gly Asp Ile Glu Lys Cys Lys Arg Gly Phe Ile
65 70 75
Thr Glu Lys Val Pro Met Leu Glu Met Thr Leu Pro Gly Leu Arg
80 85 90
Thr Ser Gly Ile Glu Gln Leu Glu Lys Asn Pro Ser Pro Arg Ile
95 100 105
Val Lys Thr His Leu Pro Thr Asp Leu Leu Pro Lys Ser Phe Trp
110 115 120
Glu Asn Asn Cys Lys Met Ile Tyr Leu Ala Arg Asn Ala Lys Asp
125 130 135

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Val Ser Val Ser Tyr Tyr His Phe Asp Leu Met Asn Asn Leu Gln
140 145 150
Pro Phe Pro Gly Thr Trp Glu Glu Tyr Leu Glu Lys Phe Leu Thr
155 160 165
Gly Lys Val Ala Tyr Gly Ser Trp Phe Thr His Val Lys Asn Trp
170 175 180
Trp Lys Lys Lys Glu Gly His Pro Ile Leu Phe Leu Tyr Tyr Glu
185 190 195
Asp Met Lys Glu Asn Pro Lys Glu Glu Ile Lys Lys Ile Ile Arg
200 205 210
Phe Leu Glu Lys Asn Leu Asn Asp Glu Ile Leu Asp Arg Ile Ile
215 220 225
His His Thr Ser Phe Glu Val Met Lys Asp Asn Pro Leu Val Asn
230 235 240
Tyr Thr His Leu Pro Thr Thr Val Met Asp His Ser Lys Ser Pro
245 250 255
Phe Met Arg Lys Gly Thr Ala Gly Asp Trp Lys Asn Tyr Phe Thr
260 265 270
Val Ala Gln Asn Glu Lys Phe Asp Ala Ile Tyr Glu Thr Glu Met
275 280 285
Ser Lys Thr Ala Leu Gln Phe Arg Thr Glu Ile
290 295

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<210> 102
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 239568.4

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<220>
<221> unsure
<222> 495
<223> a, t, c, g, or other

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<400> 102
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gatattaaaaa ccagtgaaac caaacatgac acctctctga aacctattag tgtctctctac 240
aacccagcca cagccaaaga aattatcaat gtggggcatt ccttccatgt aaattttgag 300
gacaaacgata accgatcagt gctgaaagggt ggtcctttct ctgacagcta caggctcttt 360
cagttccattt ttcactgggg cagtacaaat gagcatgggt cagaacatac agtggatgga 420
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gctgaagctg cctcnaaggc tgatggt 507

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<210> 103
<211> 494
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 255041.1

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<220>
<221> unsure
<222> 336, 458
<223> a, t, c, g, or other

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<400> 103
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attagttaca taaaaggctt gaagctggaa tgacaaaag atagaattcc ttcagttaat 180

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tccagcatga agaggttgat acagaggatt tcttctctcc tgtgacaaaa catattttta 240
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gaaatattct tagtcaaaata cttaaaaaaa aggaanaata aaaaaataatg taaaaccata 360
tgggtttatg tgaataacat tattctattc acaagtggca catgcacaaa aatctactgag 420
ctgtgtttca cactttatac attgacccaa tattaagnca tccgttcaaa atattaatac 480
cattttgcaa atac

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<210> 104
<211> 2147
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2555628CB1

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<400> 104
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aaaaaagacc tggatggatt tcggaagcta tttcatagat ttttgcaaga aaagggggct 420
tctgtggatt ggggaaaaat ccagagaccc cctgaagatt cgattcaacc ctatgaaaag 480
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<210> 105
<211> 497
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2555628CD1

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<400> 105
Met Ser Gln Asp Gly Ala Ser Gln Phe Gln Glu Val Ile Arg Gln
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 Thr Ala Ser Ser His Glu Phe Glu His Thr Lys Lys Asp Leu Asp
 35 40 45
 Gly Phe Arg Lys Leu Phe His Arg Phe Leu Gln Glu Lys Gly Pro
 50 55 60
 Ser Val Asp Trp Gly Lys Ile Gln Arg Pro Pro Glu Asp Ser Ile
 65 70 75
 Gln Pro Tyr Glu Lys Ile Lys Ala Arg Gly Leu Pro Asp Asn Ile
 80 85 90
 Ser Ser Val Leu Asn Lys Leu Val Val Val Lys Leu Asn Gly Gly
 95 100 105
 Leu Gly Thr Ser Met Gly Cys Lys Gly Pro Lys Ser Leu Ile Gly
 110 115 120
 Val Arg Asn Glu Asn Thr Phe Leu Asp Leu Thr Val Gln Gln Ile
 125 130 135
 Glu His Leu Asn Lys Thr Tyr Asn Thr Asp Val Pro Leu Val Leu
 140 145 150
 Met Asn Ser Phe Asn Thr Asp Glu Asp Thr Lys Lys Ile Leu Gln
 155 160 165
 Lys Tyr Asn His Cys Arg Val Lys Ile Tyr Thr Phe Asn Gln Ser
 170 175 180
 Arg Tyr Pro Arg Ile Asn Lys Glu Ser Leu Leu Pro Val Ala Lys
 185 190 195
 Asp Val Ser Tyr Ser Gly Glu Asn Thr Glu Ala Trp Tyr Pro Pro
 200 205 210
 Gly His Gly Asp Ile Tyr Ala Ser Phe Tyr Asn Ser Gly Leu Leu
 215 220 225
 Asp Thr Phe Ile Gly Glu Gly Lys Glu Tyr Ile Phe Val Ser Asn
 230 235 240
 Ile Asp Asn Leu Gly Ala Thr Val Asp Leu Tyr Ile Leu Asn His
 245 250 255
 Leu Met Asn Pro Pro Asn Gly Lys Arg Cys Glu Phe Val Met Glu
 260 265 270
 Val Thr Asn Lys Thr Arg Ala Asp Val Lys Gly Gly Thr Leu Thr
 275 280 285
 Gln Tyr Glu Gly Lys Leu Arg Leu Val Glu Ile Ala Gln Val Pro
 290 295 300
 Lys Ala His Val Asp Glu Phe Lys Ser Val Ser Lys Phe Lys Ile
 305 310 315
 Phe Asn Thr Asn Asn Leu Trp Ile Ser Leu Ala Ala Val Lys Arg
 320 325 330
 Leu Gln Glu Gln Asn Ala Ile Asp Met Glu Ile Ile Val Asn Ala
 335 340 345
 Lys Thr Leu Asp Gly Gly Leu Asn Val Ile Gln Leu Glu Thr Ala
 350 355 360
 Val Gly Ala Ala Ile Lys Ser Phe Glu Asn Ser Leu Gly Ile Asn
 365 370 375
 Val Pro Arg Ser Arg Phe Leu Pro Val Lys Thr Thr Ser Asp Leu
 380 385 390
 Leu Leu Val Met Ser Asn Leu Tyr Ser Leu Asn Ala Gly Ser Leu
 395 400 405
 Thr Met Ser Glu Lys Arg Glu Phe Pro Thr Val Pro Leu Val Lys
 410 415 420
 Leu Gly Ser Ser Phe Thr Lys Val Gln Asp Tyr Leu Arg Arg Phe
 425 430 435
 Glu Ser Ile Pro Asp Met Leu Glu Leu Asp His Leu Thr Val Ser
 440 445 450
 Gly Asp Val Thr Phe Gly Lys Asn Val Ser Leu Lys Gly Thr Val
 455 460 465
 Ile Ile Ile Ala Asn His Gly Asp Arg Ile Asp Ile Pro Pro Gly
 470 475 480
 Ala Val Leu Glu Asn Lys Ile Val Ser Gly Asn Leu Arg Ile Leu
 485 490 495
 Asp His

<210> 106
 <211> 706
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 255803.1

<220>
 <221> unsure
 <222> 136
 <223> a, t, c, g, or other

<400> 106
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 gcaggacatg gcgtanagct gcatgagtac cagggaatgac gaacatcagg ctggccctgg 180
 acatcaagat caccatctac aggaagctgc tggagggcga ggagagccag ttggagctctg 240
 ggatgcagaa catgagatc catacgaaga ccaccagcgg ctatgcaggt gatctgagct 300
 cggcctatgt gggcctcaca actcgtgacc tcagctatgg cctgggctcc agctttggct 360
 ctggcacagg ctcagctcc ttcaggtgca ccagctccac caggggcgtg gttgtgaaga 420
 agatcgagac ccgcgatggg aagctggtgt ctgagctcct tgacttctcg cccaagtga 480
 caactgtggc agctcctcct agtctgcccc tcccggtggt gccacagact ccaggaggga 540
 ggctgtctgt tggggaagca cagacaacag gagaccccc acctgaggct caacccacc 600
 gtgggggagt ttactgtctg gggaccccc ttccagctag aaaaacaattg 660
 tggttttttt ttgggtccaa aataaaacct cagttagttc caccac 706

<210> 107
 <211> 1589
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 900341CB1

<400> 107
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 ggagttggca gcgggatgctg ctgcacggac aggcgcggcg gacagccccc ggggcagcgg 180
 cggggtctctg tctgggagag gacagggttg cggcgggcgg aacgggtgtct ccttcacttc 240
 gccctccagc tgcctggagct gcagcccgac cgcgagcgtg ccaagcggct tcagcagct 300
 gcggagcggg ttggcggcgcc cccctcagg acacacccag attccctct tcocgcggcc 360
 tcgccatggc gacccacgga cagacttgct cgcgtccaat gtgtattctc ccatcatatg 420
 ctgaccttgg caaagctgcc agagataatt tcaacaaaag atttggtttt gggttgggtga 480
 aactggatgt gaaaaacaa tcttgcaagt gcgtggaatt ttcaacgtcc ggttcatcta 540
 atacagacac ttgtaaaagt actgggacct tggagaccaa atacaagtgg ttgagtgatg 600
 gtcgtacttt acagaaaaa tggaaacactg ataactctct gggaacagaa atcgcaattg 660
 aagaccagat ttgtcaaggt ttgaaactga catttgatac taccttctca ccaaacacag 720
 gaaagaaaa ttgtaaaact aagctctctt acaagaggga gtgtataaac cttgtgtgtg 780
 atgttgactt tgattttgct ggacctgcaa tccatggttc agctgtcttt ggttatgagg 840
 gctgtgcttg ttgcttaccg atgacctttg acagtgcaca atcaaaagctg acaagggaata 900
 actttgcagt gggtacagg actggggact tccagctaca cactaatgtc aatgatggga 960
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 atcccactgc ttccatttct gcaaaagtea acaactctag cttaattgga gtagggtata 1140
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 cagcagcctt ttcttccccc agaagatgat tgggacttca gatgatctca aacagagctg 1380
 tatttttaagt atttagaac tcttttgtta gctgggttct agttggttat ctgattacca 1440
 atgctgcagt cctcagactca cctatacatt atttaaatgt atttaactgt taagtgcct 1500
 accccaacat aatgaaatga accttatga aaactgtgca attgtgtgca tgtttgtttt 1560
 tatgttctct tagaaaacat tgactgttt 1589

PA-0038 US

<210> 108
<211> 294
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 900341CD1

<400> 108
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Pro Ser Tyr Ala Asp Leu Gly Lys Ala Ala Arg Asp Ile Phe Asn
20 25 30
Lys Gly Phe Gly Phe Gly Leu Val Lys Leu Asp Val Lys Thr Lys
35 40 45
Ser Cys Ser Gly Val Glu Phe Ser Thr Ser Gly Ser Ser Asn Thr
50 55 60
Asp Thr Gly Lys Val Thr Gly Thr Leu Glu Thr Lys Tyr Lys Trp
65 70 75
Cys Glu Tyr Gly Leu Thr Phe Thr Glu Lys Trp Asn Thr Asp Asn
80 85 90
Thr Leu Gly Thr Glu Ile Ala Ile Glu Asp Gln Ile Cys Gln Gly
95 100 105
Leu Lys Leu Thr Phe Asp Thr Thr Phe Ser Pro Asn Thr Gly Lys
110 115 120
Lys Ser Gly Lys Ile Lys Ser Ser Tyr Lys Arg Glu Cys Ile Asn
125 130 135
Leu Gly Cys Asp Val Asp Phe Asp Phe Ala Gly Pro Ala Ile His
140 145 150
Gly Ser Ala Val Phe Gly Tyr Glu Gly Trp Leu Ala Gly Tyr Gln
155 160 165
Met Thr Phe Asp Ser Ala Lys Ser Lys Leu Thr Arg Asn Asn Phe
170 175 180
Ala Val Gly Tyr Arg Thr Gly Asp Phe Gln Leu His Thr Asn Val
185 190 195
Asn Asp Gly Thr Glu Phe Gly Gly Ser Ile Tyr Gln Lys Val Cys
200 205 210
Glu Asp Leu Asp Thr Ser Val Asn Leu Ala Trp Thr Ser Gly Thr
215 220 225
Asn Cys Thr Arg Phe Gly Ile Ala Ala Lys Tyr Gln Leu Asp Pro
230 235 240
Thr Ala Ser Ile Ser Ala Lys Val Asn Asn Ser Ser Leu Ile Gly
245 250 255
Val Gly Tyr Thr Gln Thr Leu Arg Pro Gly Val Lys Leu Thr Leu
260 265 270
Ser Ala Leu Val Asp Gly Lys Ser Ile Asn Ala Gly Gly His Lys
275 280 285
Val Gly Leu Ala Leu Glu Leu Glu Ala
290

<210> 109
<211> 1870
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 273879CB1

<400> 109
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agccattgca ccagccgat actactatat cccattttta cagatgagca catggggcaa 180
ttgaggttaa ggcactgacc catgatcata cagctgagaa gtggcaagg caggatttga 240
acctagaacc tctggctcca cacactagta atctaaacca ctctccctac aatacaacat 300

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gaggcaggaa tttgcagttc ctccgcgttc tctctctccg ctgccacct gtcctgggtc 420
attcctgcag cctgccctgc cctgcctggt ctacccctcc ctctgccaac agaagctcgg 480
gcagggtttt atgggctctg ataaggccct ggcaggggccg aagttcatga gcacttcctc 540
tttgcaggag ggcctagggg aggggaccca ggtgatttgg gtcctggctg gtcaccaggg 600
aagctgggcaa ggggaaggag actagggtgc gctctaggag aagccgacag cctgagagtc 660
ccagaaggag agcctctgtg accctccctt gccagccact cccttaccct ggggtataaga 720
gcaccaccgc ctgccttact gccaccatct cccactcctg cagctcttct cacaggacca 780
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gggtgatgtc accctgtcct atgtccagat ctaacttatt cctggggcca taactcatg 1800
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aaaaaaaaa
1870

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<210> 110

<211> 323

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 273879CD1

<400> 110

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Thr Leu Pro Tyr Tyr Gln Pro Ile Pro Gly Gly Leu Asn Val Gly
20 25 30
Met Ser Val Tyr Ile Gln Gly Val Ala Ser Glu His Met Lys Arg
35 40 45
Phe Phe Val Asn Phe Val Val Gly Gln Asp Pro Gly Ser Asp Val
50 55 60
Ala Phe His Phe Asn Pro Arg Phe Asp Gly Trp Asp Lys Val Val
65 70 75
Phe Asn Thr Leu Gln Gly Gly Lys Trp Gly Ser Glu Glu Arg Lys
80 85 90
Arg Ser Met Pro Phe Lys Lys Gly Ala Ala Phe Glu Leu Val Phe
95 100 105
Ile Val Leu Ala Glu His Tyr Lys Val Val Val Asn Gly Asn Pro
110 115 120
Phe Tyr Glu Tyr Gly His Arg Leu Pro Leu Gln Met Val Thr His
125 130 135
Leu Gln Val Asp Gly Asp Leu Gln Leu Gln Ser Ile Asn Phe Ile
140 145 150
Gly Gly Gln Pro Leu Arg Pro Gln Gly Pro Pro Met Met Pro Pro
155 160 165
Tyr Pro Gly Pro Gly His Cys His Gln Gln Leu Asn Ser Leu Pro
170 175 180
Thr Met Glu Gly Pro Pro Thr Phe Asn Pro Pro Val Pro Tyr Phe
185 190 195
Gly Arg Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile Ile Ile
200 205 210

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Lys Gly Tyr Val Pro Pro Thr Gly Lys Ser Phe Ala Ile Asn Phe
 215 220 225
 Lys Val Gly Ser Ser Gly Asp Ile Ala Leu His Ile Asn Pro Arg
 230 235 240
 Met Gly Asn Gly Thr Val Val Arg Asn Ser Leu Leu Asn Gly Ser
 245 250 255
 Trp Gly Ser Glu Glu Lys Lys Ile Thr His Asn Pro Phe Gly Pro
 260 265 270
 Gly Gln Phe Phe Asp Leu Ser Ile Arg Cys Gly Leu Asp Arg Phe
 275 280 285
 Lys Val Tyr Ala Asn Gly Gln His Leu Phe Asp Phe Ala His Arg
 290 295 300
 Leu Ser Ala Phe Gln Arg Val Asp Thr Leu Glu Ile Gln Gly Asp
 305 310 315
 Val Thr Leu Ser Tyr Val Gln Ile
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<210> 111

<211> 1137

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 141804.1

<220>

<221> unsure

<222> 1047

<223> a, t, c, g, or other

<400> 111

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 aagaaggagga aatgatggat gagggtaaaa acttcagttt cagaaattga agacttagaa 180
 aaggaaggaa ccatgcctct agaagattta ctggcattct atggctatga acctacaatt 240
 ccagcagttg caaattccag tgc aaatagtt tccc aaagt aactggcaga tgaactacca 300
 gacatgacac tagacaaaga ggaatatgca aaagacctgt tgcaggtga tgacaggaa 360
 actcagtcct ctgcggatga tctgacgcga tctgtgactt cccatgaac tctgatctc 420
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 ttacaataac aggcagagat tccccttat ctggagagt acgatggtaa tgagaaagta 600
 tatgaaaac aagaccagtt actttgttgt cctgatgtgg ttttggagag caaagttaag 660
 gaataccttg ttgagacttc attaaggact ggcagtgaaa aaataatgga taggtattct 720
 gcaggaacac acacaaggga caatgaacag gcatttatat aacttctcaa gtgtaacac 780
 aatataaagg aagcaatcga aagatactgc tgc aatggaa aggcctctca agaaggaaatg 840
 actgcatgga cgggaagaaga atgccgaagc tttgaacatg cactcatgct ttttggaaaa 900
 gatttcatc ttatacagaa gaataaggta aattaggcag attagtacag ataaattact 960
 agttacagtg aatgtaaaga actaatattat aagtcactta agtaggaaaa aagaacaact 1020
 tactaatgtt cccttgccaa tagcatntca gatacattc taacatgcac taatttgctc 1080
 agagatgccca cagcctgctt atggaatggc tgatagtata ttcacatata ttttcac 1137

<210> 112

<211> 1450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2512879CB1

<400> 112

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 gagttaaaga aaccccttct cattgaggag gtggaggttg cactctctaa ggcccatgaa 180
 gttcgtatta agatggtggc ttaggaatc tgtggcacag atgaccagtg ggttagtggt 240

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accatggtga cccacccttc tgtgatttta ggccatgagg cagccggcat cgtggagagt 300
gttggaaga ggggtgactac agtcaaaaca ggtgataaag tcaccccat cgtatttcc 360
cagtgtggaa aatgcagaat ttgtaaaac ccggagagca actactgctt gaaaaacgat 420
gtaagcaatc ctacggggac cctgcaggat ggcaccagca ggttcacctg caggaggaag 480
cccatccacc acttccttgg catcagcacc ttctccacgt acacagtggt ggaatgaaat 540
gcagttagcca aaattgatgc agcctcgctt ctatagaaaag tcacccccagg cctcactctg 600
ttttcaactg gttatgggtc tgcagtcaat gttgccaaag tgggctgtgt agcagctggg 720
gctgtgtttg gcctggggag ggtcggccta tctgctatta ttgcaaggc caaagagttg 780
gcagccagaa tcattggcgt ggacatcaac aaggacaaat ttcacaggc ggtgctaaag 840
ggtgccactg aatgcataca cctcaagac tacaagaaac ccattccagg ggtgctaaag 900
gaaatgactg atggaggtgt ggatttttca tttgaagtca tcggctcggt tgacaccatg 960
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gacaatacag atgtttttcc ttgtggcagt ctccagctc ctctacccta catgatctgg 1260
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ttgggggctt tccaagaaaa tggaaattga tgtaaaaata ttttcaagc aatgttttaa 1380
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<210> 113
<211> 375
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2512879CD1

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<400> 113
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Trp Glu Leu Lys Lys Pro Phe Ser Ile Glu Glu Val Glu Val Ala
20 25 30
Pro Pro Lys Ala His Glu Val Arg Ile Lys Met Val Ala Val Gly
35 40 45
Ile Cys Gly Thr Asp Asp His Val Val Ser Gly Thr Met Val Thr
50 55 60
Pro Leu Pro Val Ile Leu Gly His Glu Ala Ala Gly Ile Val Glu
65 70 75
Ser Val Gly Glu Gly Val Thr Thr Val Lys Pro Gly Asp Lys Val
80 85 90
Ile Pro Leu Ala Ile Pro Gln Cys Gly Lys Cys Arg Ile Cys Lys
95 100 105
Asn Pro Glu Ser Asn Tyr Cys Leu Lys Asn Asp Val Ser Asn Pro
110 115 120
Gln Gly Thr Leu Gln Asp Gly Thr Ser Arg Phe Thr Cys Arg Arg
125 130 135
Lys Pro Ile His His Phe Leu Gly Ile Ser Thr Phe Ser Gln Tyr
140 145 150
Thr Val Val Asp Glu Asn Ala Val Ala Lys Ile Asp Ala Ala Ser
155 160 165
Pro Leu Glu Lys Val Cys Leu Ile Gly Cys Gly Phe Ser Thr Gly
170 175 180
Tyr Gly Ser Ala Val Asn Val Ala Lys Val Thr Pro Gly Ser Thr
185 190 195
Cys Ala Val Phe Gly Leu Gly Gly Val Gly Leu Ser Ala Ile Met
200 205 210
Gly Cys Lys Ala Ala Gly Ala Ala Arg Ile Ile Ala Val Asp Ile
215 220 225
Asn Lys Asp Lys Phe Ala Lys Ala Lys Glu Leu Gly Ala Thr Glu
230 235 240
Cys Ile Asn Pro Gln Asp Tyr Lys Lys Pro Ile Gln Glu Val Leu
245 250 255

```

```

Lys Glu Met Thr Asp Gly Gly Val Asp Phe Ser Phe Glu Val Ile
260 265
Gly Arg Leu Asp Thr Met Met Ala Ser Leu Leu Cys Cys His Glu
275 280 285
Ala Cys Gly Thr Ser Val Ile Val Gly Val Pro Pro Asp Ser Gln
290 295 300
Asn Leu Ser Met Asn Pro Met Leu Leu Leu Thr Gly Arg Thr Trp
305 310 315
Lys Gly Ala Ile Leu Gly Gly Phe Lys Ser Lys Glu Cys Val Pro
320 325 330
Lys Leu Val Ala Asp Phe Met Ala Lys Lys Phe Ser Leu Asp Ala
335 340 345
Leu Ile Thr His Val Leu Pro Phe Glu Lys Ile Asn Glu Gly Phe
350 355 360
Asp Leu Leu His Ser Gly Lys Ser Ile Arg Thr Ile Leu Met Phe
365 370 375

```

```

<210> 114
<211> 583
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2685676CB1

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<400> 114
cctgtagggt gctgtccttg ctgtcctgct ctgtgacact ctctggggg tcacccgatt 60
ggaggggcgtt atccacccttc cactgtactt tggcctctct gggatagaag ttattcagca 120
ggcacacaac agaggcagtt ccagatttca actgctctc agatggcggg aagatgaaga 180
cagatggtgc agccacagtt cgtttgatct ccagctcgag ccgctgcgtg ttttctctt 240
gatcgggaac tctgcttct ccttgctctg aaatggaccc caactgctcc tgcctgcctg 300
ttgctcctg tgctgtgcc ggctcctgca aatgcaaaga gtgcaaagc acctcctgca 360
agaagagctg ctgctcctgc tgccctgtgg gctgtgcaa gtgtgccag ggctgcctc 420
gcaaaggggc atcagagaag tgcagctgct gtgcctgatg tccggacagc cctgctcgaa 480
gatatagaaa gagtgacctg cacaacttg gaatttttt tccatacaac cctgccccat 540
ctactgtatt tttttaatg aaatatgtga atgataatg tca 583

```

```

<210> 115
<211> 61
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2685676CD1

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```

<400> 115
Met Asp Pro Asn Cys Ser Cys Ser Pro Val Gly Ser Cys Ala Cys
1 5 10 15
Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
20 25 30
Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ala Lys Cys Ala
35 40 45
Gln Gly Cys Ile Cys Lys Gly Ala Ser Glu Lys Cys Ser Cys Cys
50 55 60
Ala

```

```

<210> 116
<211> 1759
<212> DNA
<213> Homo sapiens

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```

<220>

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<221> misc_feature
 <223> Incyte ID No: 2742913CB1

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<400> 116
cacactgacg aggcctatgat tgaatttagg tgacctatag acgcgcgtgta actacgcctcg 60
gaattcgctg cgaggtcacc tcctccccctt gtgcgcctagg tccaccgcag cccctccccc 120
cgggcgccccc acgagcacga agttggcggg agcctataaa agctggtgcc ggcgcgacccc 180
ggcgacacac agtgccagcg cccaagccgc cgccgcacga tcggtgccga ttccctgccct 240
gccccgcagg ccagcgcgac catgtcccat cactgggggt acggcaaaaca caacggacct 300
gagcactcgc ataggagctt cccattgcc aaggagagc gccagtcgcc tgttgacatc 360
gacactcata cagccaagta tgaccttcc ctgaagcccc tgtctgttcc ctatgatcaa 420
gcaactcccc tgaggatcct caacaatggt catgctttca acgtggagtt tgatgactct 480
caggacaaag cgggtctcaa gggaggaccc ctggatggca cttacagatt gattcagttt 540
cactttcact ggggttact tgatggacaa ggttcagagc atactgttga taaaaagaaa 600
tatgtgcgag aacttccact gggtcactgg aacaccaaat atgggggatt tgggaaagct 660
gtgcagcaac ctgatggact ggccgttcta ggtatttttt tgaagggtgg cagcgcataa 720
cggggccttc cggaaagtgt tgatgtgctg gattccatta aaacaaaggg caagagtgct 780
gacttcataa acttcgatcc tcgtggcctc ctctctgaat ccttgggata ctggacctac 840
ccaggctcac taccacccc gaatgtgtga gaattgtgtg aacttaactt caatggggag 900
cccatcagcg tcacagcaga gcagggtgtg aaattccgta aacttaactt caatggggag 960
ggtgaccggc aagaactgat ggtggacaa tgccgccagc ctcagccact gaagaacagg 1020
caaatcaaa cttccctcaa ataagatggt cccatagctc gtatccaaat aatgaactct 1080
cggggttttc cctttagcta agcacagatc taccttgggt atttggaccc tggttgcttt 1140
gtgtctagtt ttctagaccc ttcatctctt acctgataga cttactaata aatgtggaag 1200
actagaccaa ttctcatgct tgacacaaact gctgtggctg gttgtgctt tgtttatggt 1260
agtagttttt ctgtaacaca gaataatgga taagaaataa gaataaagta ccttgacttt 1320
gttcaacaga gttaggttga tgagcactca caattgttga ctaaaatgct gctttataaa 1380
catagaaaag tagaatgtgt gagtgcacaa ccatagcaca agataaattg agctagttaa 1440
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atgatttcaa gatgttatat taaagaaaaa ctttaaaaaa tattatatat ttatagcaaa 1560
gttatcttaa atatgaattc tgtttgaatt taatgacttt gaattacag agatataaat 1620
gaagtattat ctgtaaaaaa tgtttataatt agagttgtga tacagagtat atttccattc 1680
agacaatata tcataactta ataaatattg tattttagat atattctcta ataaaattca 1740
gaattctaaa aaaaaaaaaa

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<210> 117
 <211> 260
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2742913CD1

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<400> 117
Met Ser His His Trp Gly Tyr Gly Lys His Asn Gly Pro Glu His
1 5 10 15
Trp His Lys Asp Phe Pro Ile Ala Lys Gly Glu Arg Gln Ser Pro
20 25 30
Val Asp Ile Asp Thr His Thr Ala Lys Tyr Asp Pro Ser Leu Lys
35 40 45
Pro Leu Ser Val Ser Tyr Asp Gln Ala Thr Ser Leu Arg Ile Leu
50 55 60
Asn Asn Gly His Ala Phe Asn Val Glu Phe Asp Asp Ser Gln Asp
65 70 75
Lys Ala Val Leu Lys Gly Gly Pro Leu Asp Gly Thr Tyr Arg Leu
80 85 90
Ile Gln Phe His Phe His Trp Gly Ser Leu Asp Gly Gln Gly Ser
95 100 105
Glu His Thr Val Asp Lys Lys Lys Tyr Ala Ala Glu Leu His Leu
110 115 120
Val His Trp Asn Thr Lys Tyr Gly Asp Phe Gly Lys Ala Val Gln
125 130 135
Gln Pro Asp Gly Leu Ala Val Leu Gly Ile Phe Leu Lys Val Gly
140 145 150
Ser Ala Lys Pro Gly Leu Gln Lys Val Val Asp Val Leu Asp Ser

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Ile Lys Thr Lys	155	Gly Lys Ser Ala Asp	160	Phe Thr Asn Phe Asp	165
Arg Gly Leu Leu	170	Pro Glu Ser Leu Asp	175	Tyr Trp Thr Tyr Pro	180
Ser Leu Thr Thr	185	Pro Leu Leu Glu	190	Cys Val Thr Trp Ile	195
Leu Lys Glu Pro	200	Ile Ser Val Ser Ser	205	Glu Gln Val Leu Lys	210
Arg Lys Leu Asn	215	Phe Asn Gly Glu Gly	220	Glu Pro Glu Glu Leu	225
Val Asp Asn Trp	230	Arg Pro Ala Gln Pro	235	Leu Lys Asn Arg Gln	240
Lys Ala Ser Phe	245	Lys	250		255
	260				

<210> 118
 <211> 508
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 429183.1

<220>
 <221> unsure
 <222> 265, 290, 331-332, 356, 470
 <223> a, t, c, g, or other

<400> 118
 gccggcctctc ctcgccctctc agcagcttcc cgtagggtggg cgatctcgat ctcgatgtcc 60
 agggccagct tgacgttcat cagctcctag tactcaccga gctgccgcgc catgtcctgc 120
 ttggccgcct ggaggggcgc ctccagctcg gacagcttgg cgttggcacc cttaactgcc 180
 cagctcctca ggcctgctcg catctgtgat ggccgcctcc aggggaagccc tctggccttt 240
 gaggaactca gtctcagcct ggagmccact gatgttccag ttcatctcgn aggtctcagt 300
 ctttgtatgc tgcacgtcat cccctgtcct nncagacagc gctctggagct cctcanactt 360
 gatctggtac atgctctcaa cctcagccca gctgcggtta gccatctcct agtactgcgc 420
 cttgagctca gcgatgactc tatgtccagg gaggcggtgt tgtccatggn cagctccaca 480
 gacgtgtccg agatctgggt ctgcagct 508

<210> 119
 <211> 442
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2757583CB1

<400> 119
 cctgaatata aaagcagcgg ccggctgttg ggggtccacca cgccttccac ctgcccact 60
 gcttctctcg tctctctctg gaaagtccag tctctctcg gcttgcaatg gaccccaact 120
 gctcctgcgc cgtctgtgtc tctgcacct gcctgtgttc ctgcaagtgc aaagagtgc 180
 aatgcaactc ctgcaagaag agctgtgtct cctgtgcccc cgtgggctgt agcaagtgtg 240
 cccagggtgt tgcttgcmaa gggcgctcag agaagtgcag ctgctgcgac tgatgccagg 300
 acaacctttc tcccatgatg aaacagagag acatgtacaa acctggattt ttttttata 360
 ccaccttgac ccatttgcta catctctttt cctgtgaaat atgtgagtga taattaaaca 420
 ctttagacct gaaaaaaaa aa 442

<210> 120
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>

<221> misc_feature
 <223> Incyte ID No: 2757583CD1

<400> 120

Met Asp Pro Asn Cys Ser Cys Ala Ala Gly Val Ser Cys Thr Cys
 1 5 10 15
 Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
 20 25 30
 Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ser Lys Cys Ala
 35 40 45
 Gln Gly Cys Val Cys Lys Gly Ala Ser Glu Lys Cys Ser Cys Cys
 50 55 60
 Asp

<210> 121
 <211> 3686
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1344279CB1

<400> 121

gaagaggagga gtccagtgtt ggagggggcag ggacggcgcc ggcgcacgtc ggaacccgcc 60
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 acacggttcc tggatctcct ctccccaggc ggagcgtgcc cctgcccagt ccagtgacct 180
 tcgctcgtgtt gaggcctgggt taatttttgc ccagtctgcc ctgttggggg ctctccctct 240
 ttggggatat aagcccgccc tggggctgct ccgttctctg cctggcctga ggctccctga 300
 cgcgctctcc caccatcacc atggccaagg gcttctatat ttccaagtcc ctgggcatcc 360
 tggggatcct cctggggctgt gcagccgtgt gcacaatcat cgcactgtca gtggtgtact 420
 cccaggagaa gaacaagaac gccaacagct cccccgtggc ctccaccacc cgttcgcct 480
 cagccaccac caaccccgcc tcggccacca ccttgaccac aagtaaagcg tggaaatcgt 540
 accgctctcc caacacgctg aaacccgatt cctaccaggt gacgctgaga ccgtacctca 600
 cccccaatga cagggggcctg tacgttttta agggctccag caccgtccgt ttcaactgca 660
 aggaggccac tgagctctac atcatccaca gcaagaagct caactacacc ctgagccagg 720
 ggacacaggt ggtcctgcgt ggtgtggggag gctccagcc ccccgacctt gacaagactg 780
 agctggttga gcccccagag tacctgtgtg tgcacctcaa gggctccctg gtgaaggaca 840
 gccagtatga gatggacag gagttcgagg gggagttggc agatgacctg gcgggcttct 900
 accgcagcga gtacatggag ggcaatgtca gaaagtggtt ggccactaca cagatgcagg 960
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 acatcacgct tatccacccc aaggacctga cagccctgtc caacatgctt cccaagaagtc 1080
 ccagcacccc actctccagaa gaccccaact ggaatgtcac tgagttccac accagcccca 1140
 agatgtccac gtacttgtct gccttcattg tcaagttagt cgactacgtg gagaagcagg 1200
 catccaatgt tgtcttgatc cggatctggg ccgggcccag tgcatttgcc ctcggccacg 1260
 ggcgatgtgc cctgaacgtg acaggcccca tctttaaact ctttgtctgt cattatgaca 1320
 caccctaccc actcccaaaa tcagaccaga ttggcctgcc agacttcaac ctcaggccca 1380
 tggagaactg gggactgtgt acctaccggg agaactccct gctgttcgac cccctgtcct 1440
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 ggttcgggaa cctggtgacc atagagtggt ggaatgacct gtggtgaa cagggctctc 1560
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 tcatggttgt gaatgatgtg taccgcgtga tggcagtgga tgcactggcc tctctccacc 1680
 cgtgttccac acccgctctg gagatcaaca cggcgcccca gatcattgag ccttttgacc 1740
 ccatcttcta cagcaagggc gctcagttcc tcaggatgct ctccagcttc cgtctcgagg 1800
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 acctgaaact gtgggaccac ctgcaggagg cctgtgaacaa ccggttccat caactcccca 1920
 ccaccgtgct ggaactcatg aacgcttggg cctgtcagat cctgttcccg gtcatacagg 1980
 tggataccag cagggggacc ctttccagag agcactctct ccttgaccac gattccaatg 2040
 ttaccgcgcc ctacagattc aactacgtgt ggtattgtgc catcacatcc atcagagatg 2100
 gcagagacca caggagctac tggctgatag atgtaagagc ccagaacgat ccttccagca 2160
 catcaggcaa tgagtgggtc ctgctgaacc tcaatgtgac gggctattac cgggtgaact 2220
 acagcagaga gaactggagg aagattcaag ctcagctgca gagagaccac tgggcaact 2280
 ctgtctatca tcgggacag atcattaatg acgccttcaa cctggccagt gccccaagg 2340
 tctctgtcac tctggcgctg aacaacaccc tcttctgtat tgaagagaga cagtacatgc 2400
 cctggggaggc cgccctgagc agcctgagct acttcaagct caagctcatg tttagaccgt 2460

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ccgagggtcta tggcccccattg aagaactacc tgaagaagca ggtaacaccc ctcttcattc 2520
acttcagaaa taataccaac aactggaggg agatcccaga aaacctgatg gaccagtaca 2580
gcgagggttaa tgcacatcagc acgcgctgct ccaacggagt tccagagtgt gaggagatgg 2640
tctctggcctt ttccaaagcag tggatggaga accccaataa taaccgcgat caccccaacc 2700
tgcggtccac tgtctactgc aacgctatcg cccagggcgg ggaggaggag tgggactctg 2760
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tggcctgcag caaagagttg tggatcctga acaggtacct gagctacacc ctgaaccccg 2880
acttaatccg gaagcaggac gccacctcta ccatcctcag cattaccaac aagctcattg 2940
ggcaaggtct ggtctgggac tttgtccaga gcaactggaa gaagcttttt aacgattatg 3000
gtggtggctc gttctccttc tccaacctca tccaggcagt gacacgacga tctctccacc 3060
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caggcaccgg ggccctggag caagccctgg agaagacgaa agccaacatc aagtgggtga 3180
aggagaacaa cggagtggtg tctcagtggt tcacagaaaa cagcaaatag tcccacgccc 3240
ttgaagtcat ccggcccoga tgcgaagtgc ccacatgtgt ccatccagc ggctgggtga 3300
gggcctccat tcttggagcc cgaggcacca gtgtctctcc ctcaaggaca aagtctccag 3360
ccacagttct ctctgcctgt gagccagtct agttcctgat gaccaggctt gcttgagcac 3420
ctcccagccc ctgcccctca tgcacaacccc gccctaggcc tggcatggca cctgtcgcgc 3480
agtgcctctg ggtctgatct agggaaagccc agctccaggg ccagatgtgc agaagctctc 3540
gatggacaaat gaacggcctt gctggggggc cgcctgtacc ctctttcacc ttctccotaa 3600
gacccataat ctgaggaatc aacagggcag cagatctgta tatttttttc taagagaaaa 3660
tgtaataaaa tgatttctag atgaga 3686

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<210> 122

<211> 969

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1344279CD1

<400> 122

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Met Ala Lys Gly Phe Tyr Ile Ser Lys Ser Leu Gly Ile Leu Gly
  1 5 10 15
Ile Leu Leu Gly Val Ala Ala Val Cys Thr Ile Ile Ala Leu Ser
  20 25 30
Val Val Tyr Ser Gln Glu Lys Asn Lys Asn Ala Asn Ser Ser Pro
  35 40 45
Val Ala Ser Thr Thr Pro Ser Ala Ser Ala Thr Thr Asn Pro Ala
  50 55 60
Ser Ala Thr Thr Leu Asp Gln Ser Lys Ala Trp Asn Arg Tyr Arg
  65 70 75
Leu Pro Asn Thr Leu Lys Pro Asp Ser Tyr Gln Val Thr Leu Arg
  80 85 90
Pro Tyr Leu Thr Pro Asn Asp Arg Gly Leu Tyr Val Phe Lys Gly
  95 100 105
Ser Ser Thr Val Arg Phe Thr Cys Lys Glu Ala Thr Asp Val Ile
  110 115 120
Ile Ile His Ser Lys Lys Leu Asn Tyr Thr Leu Ser Gln Gly His
  125 130 135
Arg Val Val Leu Arg Gly Val Gly Gly Ser Gln Pro Pro Asp Ile
  140 145 150
Asp Lys Thr Glu Leu Val Glu Pro Thr Glu Tyr Leu Val Val His
  155 160 165
Leu Lys Gly Ser Leu Val Lys Asp Ser Gln Tyr Glu Met Asp Ser
  170 175 180
Glu Phe Glu Gly Glu Leu Ala Asp Asp Leu Ala Gly Phe Tyr Arg
  185 190 195
Ser Glu Tyr Met Glu Gly Asn Val Arg Lys Val Val Ala Thr Thr
  200 205 210
Gln Met Gln Ala Ala Asp Ala Arg Lys Ser Phe Pro Cys Phe Asp
  215 220 225
Glu Pro Ala Met Lys Ala Glu Phe Asn Ile Thr Leu Ile His Pro
  230 235 240
Lys Asp Leu Thr Ala Leu Ser Asn Met Leu Pro Lys Gly Pro Ser
  245 250 255

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Thr	Pro	Leu	Pro	Glu	Asp	Pro	Asn	Trp	Asn	Val	Thr	Glu	Phe	His
				260					265					270
Thr	Thr	Pro	Lys	Met	Ser	Thr	Tyr	Leu	Leu	Ala	Phe	Ile	Val	Ser
				275					280					285
Glu	Phe	Asp	Tyr	Val	Glu	Lys	Gln	Ala	Ser	Asn	Gly	Val	Leu	Ile
				290					295					300
Arg	Ile	Trp	Ala	Arg	Pro	Ser	Ala	Ile	Ala	Ala	Gly	His	Gly	Asp
				305					310					315
Tyr	Ala	Leu	Asn	Val	Thr	Gly	Pro	Ile	Leu	Asn	Phe	Phe	Ala	Gly
				320					325					330
His	Tyr	Asp	Thr	Pro	Tyr	Pro	Leu	Pro	Lys	Ser	Asp	Gln	Ile	Gly
				335					340					345
Leu	Pro	Asp	Phe	Asn	Ala	Gly	Ala	Met	Glu	Asn	Trp	Gly	Leu	Val
				350					355					360
Thr	Tyr	Arg	Glu	Asn	Ser	Leu	Leu	Phe	Asp	Pro	Leu	Ser	Ser	Ser
				365					370					375
Ser	Ser	Asn	Lys	Glu	Arg	Val	Val	Thr	Val	Ile	Ala	His	Glu	Leu
				380					385					390
Ala	His	Gln	Trp	Phe	Gly	Asn	Leu	Val	Thr	Ile	Glu	Trp	Trp	Asn
				395					400					405
Asp	Leu	Trp	Leu	Asn	Glu	Gly	Phe	Ala	Ser	Tyr	Val	Glu	Tyr	Leu
				410					415					420
Gly	Ala	Asp	Tyr	Ala	Glu	Pro	Thr	Trp	Asn	Leu	Lys	Asp	Leu	Met
				425					430					435
Val	Leu	Asn	Asp	Val	Tyr	Arg	Val	Met	Ala	Val	Asp	Ala	Leu	Ala
				440					445					450
Ser	Ser	His	Pro	Leu	Ser	Thr	Pro	Ala	Ser	Glu	Ile	Asn	Thr	Pro
				455					460					465
Ala	Gln	Ile	Ser	Glu	Leu	Phe	Asp	Ala	Ile	Ser	Tyr	Ser	Lys	Gly
				470					475					480
Ala	Ser	Val	Leu	Arg	Met	Leu	Ser	Ser	Phe	Leu	Ser	Glu	Asp	Val
				485					490					495
Phe	Lys	Gln	Gly	Leu	Ala	Ser	Tyr	Leu	His	Thr	Phe	Ala	Tyr	Gln
				500					505					510
Asn	Thr	Ile	Tyr	Leu	Asn	Leu	Trp	Asp	His	Leu	Gln	Glu	Ala	Val
				515					520					525
Asn	Asn	Arg	Ser	Ile	Gln	Leu	Pro	Thr	Thr	Val	Arg	Asp	Ile	Met
				530					535					540
Asn	Arg	Trp	Thr	Leu	Gln	Met	Gly	Phe	Pro	Val	Ile	Thr	Val	Asp
				545					550					555
Thr	Ser	Thr	Gly	Thr	Leu	Ser	Gln	Glu	His	Phe	Leu	Leu	Asp	Pro
				560					565					570
Asp	Ser	Asn	Val	Thr	Arg	Pro	Ser	Glu	Phe	Asn	Tyr	Val	Trp	Ile
				575					580					585
Val	Pro	Ile	Thr	Ser	Ile	Arg	Asp	Gly	Arg	Gln	Gln	Gln	Asp	Tyr
				590					595					600
Trp	Leu	Ile	Asp	Val	Arg	Ala	Gln	Asn	Asp	Leu	Phe	Ser	Thr	Ser
				605					610					615
Gly	Asn	Glu	Trp	Val	Leu	Leu	Asn	Leu	Asn	Val	Thr	Gly	Tyr	Tyr
				620					625					630
Arg	Val	Asn	Tyr	Asp	Glu	Glu	Asn	Trp	Arg	Lys	Ile	Gln	Thr	Gln
				635					640					645
Leu	Gln	Arg	Asp	His	Ser	Ala	Ile	Pro	Val	Ile	Asn	Arg	Ala	Gln
				650					655					660
Ile	Ile	Asn	Asp	Ala	Phe	Asn	Leu	Ala	Ser	Ala	His	Lys	Val	Pro
				665					670					675
Val	Thr	Leu	Ala	Leu	Asn	Asn	Thr	Leu	Phe	Leu	Ile	Glu	Glu	Arg
				680					685					690
Gln	Tyr	Met	Pro	Trp	Glu	Ala	Ala	Leu	Ser	Ser	Leu	Ser	Tyr	Phe
				695					700					705
Lys	Leu	Lys	Leu	Met	Phe	Asp	Arg	Ser	Glu	Val	Tyr	Gly	Pro	Met
				710					715					720
Lys	Asn	Tyr	Leu	Lys	Lys	Gln	Val	Thr	Pro	Leu	Phe	Ile	His	Phe
				725					730					735
Arg	Asn	Asn	Thr	Asn	Asn	Trp	Arg	Glu	Ile	Pro	Glu	Asn	Leu	Met
				740					745					750

Asp	Gln	Tyr	Ser	Glu	Val	Asn	Ala	Ile	Ser	Thr	Ala	Cys	Ser	Asn	
				755					760					765	
Gly	Val	Pro	Glu	Cys	Glu	Glu	Met	Val	Ser	Gly	Leu	Phe	Lys	Gln	
				770					775					780	
Trp	Met	Glu	Asn	Pro	Asn	Asn	Asn	Pro	Ile	His	Pro	Asn	Leu	Arg	
				785					790					795	
Ser	Thr	Val	Tyr	Cys	Asn	Ala	Ile	Ala	Gln	Gly	Gly	Glu	Glu	Glu	
				800					805					810	
Trp	Asp	Phe	Ala	Trp	Glu	Gln	Phe	Arg	Asn	Ala	Thr	Leu	Val	Asn	
				815					820					825	
Glu	Ala	Asp	Lys	Leu	Arg	Ala	Ala	Leu	Ala	Cys	Ser	Lys	Glu	Leu	
				830					835					840	
Trp	Ile	Leu	Asn	Arg	Tyr	Leu	Ser	Tyr	Thr	Leu	Asn	Pro	Asp	Leu	
				845					850					855	
Ile	Arg	Lys	Gln	Asp	Ala	Thr	Ser	Thr	Ile	Ile	Ser	Ile	Thr	Asn	
				860					865					870	
Asn	Val	Ile	Gly	Gln	Gly	Leu	Val	Trp	Asp	Phe	Val	Gln	Ser	Asn	
				875					880					885	
Trp	Lys	Lys	Leu	Phe	Asn	Asp	Tyr	Gly	Gly	Gly	Ser	Phe	Ser	Phe	
				890					895					900	
Ser	Asn	Leu	Ile	Gln	Ala	Val	Thr	Arg	Arg	Phe	Ser	Thr	Glu	Tyr	
				905					910					915	
Glu	Leu	Gln	Gln	Leu	Glu	Gln	Phe	Lys	Lys	Asp	Asn	Glu	Glu	Thr	
				920					925					930	
Gly	Phe	Gly	Ser	Gly	Thr	Arg	Ala	Leu	Glu	Gln	Ala	Leu	Glu	Lys	
				935					940					945	
Thr	Lys	Ala	Asn	Ile	Lys	Trp	Val	Lys	Glu	Asn	Lys	Glu	Val	Val	
				950					955					960	
Leu	Gln	Trp	Phe	Thr	Glu	Asn	Ser	Lys							
				965											

<210> 123

<211> 836

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1329472.2

<220>

<221> unsure

<222> 479

<223> a, t, c, g, or other

<400> 123

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accctctctc	tgtctccctc	cctcactttc	tgacacagtct	ctgaggccctc	ctatgagctg	120
acacagccac	cctcggtgtc	agtgtcccca	ggacaaacgg	ccaggatcac	ctgctctgga	180
gatacatatg	caaaaaactc	tgcttattgg	taccagcaga	agtcaggcca	ggccccgggtg	240
ctgtgcatct	atgaggacac	caaacgaccc	tccgagatcc	ctgagagatt	ctctggctcc	300
agctcaggga	caatgccacc	ttgactatca	gtggggcccca	gtggaggatg	aagctgacta	360
ctactgttac	tcaacagaca	gggtgttcgg	cggaggggacc	aaggtgaccg	tcctaggtca	420
gccccaggct	gccccctcgg	tcactctgtt	cccaccctcc	tctgaggagc	ttcaagccna	480
caaggccaca	ctggtgtgtc	tcataagtga	cttctaccgg	tgagccaccg	cgcccagccc	540
attgtatttt	cttaacagac	agatatgttc	ttcttgacta	tcagttgggc	ccaggtggag	600
gatgaagctg	actactactg	ttactcaaca	gacagggtgt	tggcgaggag	gaccaagggtg	660
accgtctcag	gtcagcccaa	ggctgcccc	tcggtcactc	tgttcccaac	ctcctctgag	720
gagcttcaag	ccaacaagcg	cacactgggt	tgtctcataa	gtgacttcta	ccggggagcc	780
gtgacagtgg	cctggaagcg	agatagcagc	cccttcaagg	cgggagtgga	gaccac	836

<210> 124

<211> 684

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 474457.35

<400> 124
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 ggatcacacc ctttggggaac acatccaagc ttaagacggt gaggtcagct tcacattctc 120
 aggaactctc cttcttttggg ccacggaatt aaccgagca ggcattggagg cctctgctct 180
 cacctcatca cgaatgacca gtgtggccaa agtggctcagg gtagcctctg gctctgccgt 240
 agtttttgcc ctggccagga ttgtacagct tgtgattgga ggagttgtgtg cttgtgccct 300
 ggtgtcagct gccatgggct tcactcgggc gggaatgcc tcgtctctca tagcagccaa 360
 gatgatgtcc gggcgggcca ttgccaatgg ggggtggagt gcctcgggca gccctgtgctc 420
 tactctgcaag tcaactgggag caactggact ctccggattg accaagtcca tctctggcttc 480
 cattgggtct gccattcgcc ctgtcattgc gaggtttctac tagctcctctg ccctctgccc 540
 tgcagagaag agaaccatgc cagggggagaa ggcaccagc catctgacc cagcaggagg 600
 ccaactatcc caaatatacc tggggtgaaa tataccaaat tctgcattct cagaggaaag 660
 tgagaaatag agatgaagtg ttgt 684

<210> 125
 <211> 644
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 474457.45

<400> 125
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 ttgagatctt ctactctctt aggcacagga attaacccga gcaggcatgg aggcctctgc 120
 tctcaactca tcagcagtgga ccagtggtgc caaagtggct aggggtgacct ctgctctgc 180
 cgtagttttt cccctggcca ggaattgtac agttgtgatt ggaggagttg tggctgtgcc 240
 catggtgtcc agtgccatgg gcttcaactgc ggcggggaatc cctcgtctct ccatagcagc 300
 caagatgatg tccgcggcgg ccattgccaa tgggggtgga gttgcctcgg gcagccttgt 360
 ggctactctg cagtcaactgg gagcaactgg actctccgga ttgaccaagt tcatcctgag 420
 ctccatttgg tctgccattg cggctgtcat tgcgaggttc tactagctcc ctgcctctgc 480
 cctgcagag aagagaacca tgccagggga gaaggcacc agccatcctg acccagcagg 540
 gagccaacta tcccaaatat acctgggggt aatatataca aattctgcatt ctccagagga 600
 aaataagaaa taaagatgaa ttgttgcaac tctaaaaaaa aaaa 644

<210> 126
 <211> 1115
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 898779CB1

<400> 126
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 aatcgtttga acccgggagg tggagggtgc agtgagccga gatcaccca ctgcaactca 120
 gcctggggca cagagcaaga ctctacttca aaaaaaaa aaaggggcgg cgctctctgc 180
 cagcagcgt cgggagccag ccaacgagcg gaaaattggca gacaaatttt cgtccatga 240
 tgcgttatct ggttcttgaa acccaaaccc tcaagatgg cctggcgcat gggggaaaca 300
 gcctctgctgg gcagggggct acccaggggc ttctctact ggggcctacc ccggcgaggc 360
 acccccaggg gcttatctctg gacaggcacc tccaggcgcc taccatggag caactggagc 420
 ttatcccaga gcacctgcac ctggagtcta cccaggggcca cccagggcca ctggggccta 480
 cccattctct ggacagccaa gtgcgcccg agcctaccct gccactggcc cctatggcgc 540
 cctctgttga ccaactgattg tgccttataa cctgcctttg cctgggggag tgggtgctcg 600
 catgctgata caaattctctg gcacggtgaa gcccaatgca accagaattg ctttagattt 660
 ccaaaaggag aatgatgttg ccttccactt taaccacgc ttcattgaga acaacaggag 720
 agtcattgtt tgcaatataa agctgggata taactgggga aggggaagaaa gacagtcgtg 780
 tttccatttt gaaagtggga aaccattcaa aatacaagta ctggttgaac ctgaccattt 840
 caaggttgca gtgaatgct ctcaattgtt gcagtacaat catcgggtta aaaaactcaa 900
 tgaaatcagc aaactgggaa ttctcgttga catagacct accagtgtct catataccat 960

gataataatct gaaaggggca gattaaaaaa aaaaaaagaa tctaaacctt acatgtgttaa 1020
 aggtttcatg ttactgtga gtgaaaattt ttacattcat caatatccct cttgtgaagtc 1080
 attactcttaa taaattattc agtgaaaaaa aaaaa 1115

<210> 127

<211> 250

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 898779CD1

<400> 127

Met	Ala	Asp	Asn	Phe	Ser	Leu	His	Asp	Ala	Leu	Ser	Gly	Ser	Gly
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Asn	Pro	Asn	Pro	Gln	Gly	Trp	Pro	Gly	Ala	Trp	Gly	Asn	Gln	Pro
			20					25					30	
Ala	Gly	Ala	Gly	Gly	Tyr	Pro	Gly	Ala	Ser	Tyr	Pro	Gly	Ala	Tyr
			35					40					45	
Pro	Gly	Gln	Ala	Pro	Pro	Gly	Ala	Tyr	Pro	Gly	Gln	Ala	Pro	Pro
			50					55					60	
Gly	Ala	Tyr	His	Gly	Ala	Pro	Gly	Ala	Tyr	Pro	Gly	Ala	Pro	Ala
			65					70					75	
Pro	Gly	Val	Tyr	Pro	Gly	Pro	Pro	Ser	Gly	Pro	Gly	Ala	Tyr	Pro
			80					85					90	
Ser	Ser	Gly	Gln	Pro	Ser	Ala	Pro	Gly	Ala	Tyr	Pro	Ala	Thr	Gly
			95					100					105	
Pro	Tyr	Gly	Ala	Pro	Ala	Gly	Pro	Leu	Ile	Val	Pro	Tyr	Asn	Leu
			110					115					120	
Pro	Leu	Pro	Gly	Gly	Val	Val	Pro	Arg	Met	Leu	Ile	Thr	Ile	Leu
			125					130					135	
Gly	Thr	Val	Lys	Pro	Asn	Ala	Asn	Arg	Ile	Ala	Leu	Asp	Phe	Gln
			140					145					150	
Arg	Gly	Asn	Asp	Val	Ala	Phe	His	Phe	Asn	Pro	Arg	Phe	Asn	Glu
			155					160					165	
Asn	Asn	Arg	Arg	Val	Ile	Val	Cys	Asn	Thr	Lys	Leu	Asp	Asn	Asn
			170					175					180	
Trp	Gly	Arg	Glu	Glu	Arg	Gln	Ser	Val	Phe	Pro	Phe	Glu	Ser	Gly
			185					190					195	
Lys	Pro	Phe	Lys	Ile	Gln	Val	Leu	Val	Glu	Pro	Asp	His	Phe	Lys
			200					205					210	
Val	Ala	Val	Asn	Asp	Ala	His	Leu	Leu	Gln	Tyr	Asn	His	Arg	Val
			215					220					225	
Lys	Lys	Leu	Asn	Glu	Ile	Ser	Lys	Leu	Gly	Ile	Ser	Gly	Asp	Ile
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Asp	Leu	Thr	Ser	Ala	Ser	Tyr	Thr	Met	Ile					
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<210> 128

<211> 2528

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1843408CB1

<400> 128

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tttacatttt	gaaaaattac	aaagatgaac	tcattttttt	cctgagagca	ataactattt	180
ggcaatgcac	agccctggca	aaagggcgtc	gaatgtgttt	gaaggtgtct	gtgtgtgttt	240
ttgttcagga	cgttgcgtt	ttctatttca	ggtgacctca	cattcgtgcc	ccttagcagc	300
actctcagga	aatgcctcct	cagctgcaaa	acggcctgaa	cctctcgccc	aaagtgttcc	360
agggaagcct	ggacagccta	ccccaggcag	tgagggagtt	tctcgagaat	aacgtgagc	420

tgtgtcagcc tgatcacatc cacatctgtg acggctctga ggaggagaaat gggcggttcc 480
 tggcccgagt ggaggaaagat ggcaccccca ggcggctgaa gaagtatgac aacttgtcgt 540
 ttgctctcac tgaccccagg gatgtggcca ggatcgaaag caagacgggtt agtcacccc 600
 aagagcaaaag agacacagtg cccatcccca aaacaggctc cagccagctc ggtcgctgga 660
 tgtcagagga ggtattttag aaagcgttca atgccaggtt cccagggtgc atgaaaggtc 720
 gcaccatgta cgtcatccca ttccagcatg ggcgctggg ctacacctgc tcgaagatcg 780
 gcatcgagct gacggattcg cctcactgtg tggccagcat gcggatcatg acgcggatgg 840
 gcacgcccgt cctggaagca ctggggcatg gggagtttgt caaatgcctc cattctgtgg 900
 ggtgcctctc gcttttcaaa aagccttttg tcaacaactg gccttgcaac ccggagctga 960
 cgtctatcgc ccactgcct gaccgcagag agatcatctc ctttggcagt ggttacggcg 1020
 ggaactcgtc gctcgggaag aagtgtttg ctctcaggat ggccagcccg cttggccaagg 1080
 aggaagggtg gtcggcagag cacatgctga ttctgggtat aaccaacctc gagggtgaga 1140
 agaatgacct gctgcgcgca ttctccagcg cctgcgggaa gaccaacctg gccatgatga 1200
 accccaagct ccccggttgg aaggttgagt gctcgggga tgacattgct tggatgaagt 1260
 ttgacgcaca aggtcattta agggccatca acccagaaaa tggccttttc ggtgtcgctc 1320
 ctgggaactc agtgaagacc aaccccaatg ccatcaagac catccagaag aacacaatct 1380
 ttacccaatg ggcgcagacc agcgacgggg gcgtttactg ggaaggcatt gatgagccgc 1440
 tagcttcagg cgtcaccatc acgtccttga agaataagga gtggagctca gattgtgggg 1500
 aaccttgtgc ccacccaac tcgagggttct caccctctgc cagccagctg cccatcatg 1560
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 gggcgcccat gagatcagag gccacagcgg ctgcagaaca taaaggcaaa atcatcatgc 1740
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 ggcttagcat gcccagcac ccagcagcca aactgcccaa gatcttccat gtaacctggt 1860
 tcgggaagga caaggaagcc aaattcctct ggcagcctt tggagagaac tcagggtgct 1920
 tggagtggat gttcaaccgg atcgatggaa aagccagcac caagctcacc ccataggct 1980
 acatcccaaa ggaggatgcc ctgaacctga aagccctggg gcacatcaac atgatgagc 2040
 ttttcagcat ctccaaggaa ttctgggaga aggaggtgga agacatcgag aagtatctgg 2100
 aggatcaagt caatgcgcag ctccctctgt aaatcgagag agagatcctt gccttgaact 2160
 aagaataaag ccagatgtaa tcaggcgctc agaataagcc agatgtaatc agggcctgag 2220
 tgctttacct taaattaaaa tcaataaggt cccagtaggag caagagaggg 2280
 caagtgttcc caaattgacg ccaccataat aatcatcacc acaccgtgag cagatctgaa 2340
 aggcacactt tgattttttt aaggataaga accacagaac actgggtagt agctaagta 2400
 attgagaagg gaaattctag catgcctcca aaaattcaca tccaatgcat agtttgttca 2460
 aatttaaggt tactcagga ttgatctttt cagtggtttt tcaattttag tatgtggatt 2528
 agctagaa

<210> 129
 <211> 622
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1843408CD1

<400> 129
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 Val Gln Gly Ser Leu Asp Ser Leu Pro Gln Ala Val Arg Glu Phe
 20 25 30
 Leu Glu Asn Asn Ala Glu Leu Cys Gln Pro Asp His Ile His Ile
 35 40 45
 Cys Asp Gly Ser Glu Glu Glu Asn Gly Arg Leu Leu Gly Gln Met
 50 55 60
 Glu Glu Glu Gly Ile Leu Arg Arg Leu Lys Lys Tyr Asp Asn Cys
 65 70 75
 Trp Leu Ala Leu Thr Asp Pro Arg Asp Val Ala Arg Ile Glu Ser
 80 85 90
 Lys Thr Val Ile Val Thr Gln Glu Gln Arg Asp Thr Val Pro Ile
 95 100 105
 Pro Lys Thr Gly Leu Ser Gln Leu Gly Arg Trp Met Ser Glu Glu
 110 115 120
 Asp Phe Glu Lys Ala Phe Asn Ala Arg Phe Pro Gly Cys Met Lys
 125 130 135
 Gly Arg Thr Met Tyr Val Ile Pro Phe Ser Met Gly Pro Leu Gly

Ser Pro Leu Ser	140	Ile Gly Ile Glu	145	Leu Thr Asp Ser Pro Tyr	150
Val Val Ala Ser	155	Met Arg Ile Met Thr	160	Arg Met Gly Thr Pro Val	165
Leu Glu Ala Leu	170	Gly Asp Gly Glu Phe	175	Val Lys Cys Leu His Ser	180
Val Gly Cys Pro	185	Leu Pro Leu Gln Lys	190	Pro Leu Val Asn Asn Trp	195
Pro Cys Asn Pro	200	Glu Leu Thr Leu Ile	205	Ala His Leu Pro Asp Arg	210
Arg Glu Ile Ile	215	Ser Phe Gly Ser Gly	220	Tyr Gly Gly Asn Ser Leu	225
Leu Gly Lys Lys	230	Cys Phe Ala Leu Arg	235	Met Ala Ser Arg Leu Ala	240
Lys Glu Glu Gly	245	Trp Leu Ala Glu His	250	Met Leu Ile Leu Gly Ile	255
Thr Asn Pro Glu	260	Gly Glu Lys Lys Tyr	265	Leu Ala Ala Ala Phe Pro	270
Ser Ala Cys Gly	275	Lys Thr Asn Leu Ala	280	Met Met Asn Pro Ser Leu	285
Pro Gly Trp Lys	290	Val Glu Cys Val Gly	295	Asp Asp Ile Ala Trp Met	300
Lys Phe Asp Ala	305	Gln Gly His Leu Arg	310	Ala Ile Asn Pro Glu Asn	315
Gly Phe Phe Gly	320	Val Ala Pro Gly Thr	325	Ser Val Lys Thr Asn Pro	330
Asn Ala Ile Lys	335	Thr Ile Gln Lys Asn	340	Thr Ile Phe Thr Asn Val	345
Ala Glu Thr Ser	350	Asp Gly Gly Val Tyr	355	Trp Glu Gly Ile Asp Glu	360
Pro Leu Ala Ser	365	Gly Val Thr Ile Thr	370	Ser Trp Lys Asn Lys Glu	375
Trp Ser Ser Glu	380	Asp Gly Glu Pro Cys	385	Ala His Pro Asn Ser Arg	390
Phe Cys Thr Pro	395	Ala Ser Gln Cys Pro	400	Ile Ile Asp Ala Ala Trp	405
Glu Ser Pro Glu	410	Gly Val Pro Ile Glu	415	Gly Ile Ile Phe Gly Gly	420
Arg Arg Pro Ala	425	Gly Val Pro Leu Val	430	Tyr Glu Ala Leu Ser Trp	435
Gln His Gly Val	440	Phe Val Gly Ala Ala	445	Met Arg Ser Glu Ala Thr	450
Ala Ala Ala Glu	455	His Lys Gly Lys Ile	460	Ile Met His Asp Pro Phe	465
Ala Met Arg Pro	470	Phe Phe Gly Tyr Asn	475	Phe Gly Lys Tyr Leu Ala	480
His Trp Leu Ser	485	Met Ala Gln His Pro	490	Ala Ala Lys Leu Pro Lys	495
Ile Phe His Val	500	Asn Trp Phe Arg Lys	505	Asp Lys Glu Gly Lys Phe	510
Leu Trp Pro Gly	515	Phe Gly Glu Asn Ser	520	Arg Val Leu Glu Trp Met	525
Phe Asn Arg Ile	530	Asp Gly Lys Ala Ser	535	Thr Lys Leu Thr Pro Ile	540
Gly Tyr Ile Pro	545	Lys Glu Asp Ala Leu	550	Asn Leu Lys Gly Leu Gly	555
His Ile Asn Met	560	Met Glu Leu Phe Ser	565	Ile Ser Lys Glu Phe Trp	570
Glu Lys Glu Val	575	Glu Asp Ile Glu Lys	580	Trp Leu Glu Asp Gln Val	585
Asn Ala Asp Leu	590	Pro Cys Glu Ile Glu	595	Arg Glu Ile Leu Ala Leu	600
Lys Gln Arg Ile	605	Ser Gln Met	610		615
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<210> 130
 <211> 757
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 351241.1

<400> 130
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 tcgtttttct ttgtggagtt tcaagagtca tgggcagatt ctcttaggt ctaaaagtct 120
 gctttctcgt attacattac ctcaactctt tggcttttgt gactagcaga gattaccttg 180
 tactgtgaga ggaattttac ttgagtgtgt tactggcgga tgagagctac aaagttaaaag 240
 ctgactgagg acagttttaca ggaagcagtc ttcaactgtt tgttttttcc acctaggaag 300
 ttgttttagga tctcaattct aattcagagg tgcattctac agagtcttct ccattgcctt 360
 tctcttcaaa attaatcttg attggcttct ctgggcattt cgtgtaggaa ctgaaactca 420
 tttttcataga taaatgagag aatgagtttc ctacagctcc taaaggagct ttgtgtcttc 480
 ccagctgaaa ggtccctctg gattactagg ggctaagtgg gagtgtctag tgggttgacc 540
 ccagcaaacg tgcagcagcc ctacagggaa tccccaacaa aattagtttt aaaaggcttg 600
 tccaagaaat gaatatagga gctggtcatt ccatgctttg agccctcttg gagggtgctag 660
 acctctggag caaaaaatga ctcaagtggat aacacgctat ggagtctctg caataaccac 720
 gcacacttca acccatccca ctaaaacctca ggccttt 757

<210> 131
 <211> 3036
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 413348.40

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 ggagaagcct gggctgtgac ctggtctctc atcgggagga acagagagcc 180
 aggaccaaaag ctctctatgt aagcaacccc cagcctggag cataagagat caagatccaa 240
 tgctaaactc caatgggtca gtgactgtgg ttgctctctc tcaagccagc tgataactgt 300
 gcatactgca ggcactataa ttagaagacc tgcagataaa actgaagaaa gaaggatatt 360
 ctaatatctc ttatatgttt gttaatcatc aaggaaatctc ttctcgatta aaatacacac 420
 atcttaagaa taagggttca gagcatatcc ctgtttatca acaagaagaa acccaaacag 480
 atgtctggac tcttttaaat ggaagcaaaag atgacttctc catatatgat agatgtggcc 540
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 ccattaaagt tgcctactgt gaaaagaaat ttggtgaaact ctctctcagc actctcaaaag 660
 atgaagactt ttgtaaacgt gtatcttttg ctactgtgga taaaacagtt gaaactccat 720
 cgctctatta caatcatgag catcatcaca atcatgtgga tcagcaccct ggagcagtg 780
 agctttcaga gaatcagcaa ccaggagcac caaatgtctc tactcatctc gctctccag 840
 gccttcatca caccataaag cacaagggtc agcatagcca gggtcaccca gagaaacag 900
 atatgccagc aagtgaagat ttacaagatt tacaaaagaa gctctgtcga aagagatgta 960
 taaatacaat actctgtaaa ttgccacagc attcagagtt ggtctctagg agctgtatgt 1020
 gccattgtcg acatctgata ttgaaaaaaa cagggtctgc atcaactcga tagtgtaaaag 1080
 aaaactctcc actcttatgt agctgacagg gacttcgggc agaggagaa ataacgtaat 1140
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 aaactctact atattggctc cagatttttaa attttatgtc atagaaaat tgactcaaac 1440
 catatttttt atgtggagc aactgaaagg tgattgcagc ttttggttaa ttgtgtttt 1500
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 ggggtttctg ttggtataat agcagtttag aatggagaaa gaacaacaaa cagatgcttt 1620
 ccattttttt ctttacttat ctctcaaaac aatatattct tgtcttttca actctctact 1680
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<210> 132

<211> 4440

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 983354.2

<400> 132

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<210> 133

<211> 1456

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 235845.20

<400> 133

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<210> 134
<211> 1398
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 266360.18

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<400> 134
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<210> 135
<211> 694
<212> DNA
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 266360.15

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<220>
<221> unsure
<222> 77, 103
<223> a, t, c, g, or other

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<400> 135
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<210> 136

<211> 406

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1310030.1

<400> 136

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<210> 137

<211> 1380

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2804864CB1

<400> 137

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<210> 138

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2804864CD1

<400> 138

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  35          40          45
Asp Gly Gln Ile Asp Ala Asp Glu Leu Gln Arg Cys Leu Thr Gln
  50          55          60
Ser Gly Ile Ala Gly Gly Tyr Lys Pro Phe Asn Leu Glu Thr Cys
  65          70          75
Arg Leu Met Val Ser Met Leu Asp Arg Asp Met Ser Gly Thr Met
  80          85          90
Gly Phe Asn Glu Phe Lys Glu Leu Trp Ala Val Leu Asn Gly Trp
  95          100          105
Arg Gln His Phe Ile Ser Phe Asp Thr Asp Arg Ser Gly Thr Val
  110          115          120
Asp Pro Gln Glu Leu Gln Lys Ala Leu Thr Thr Met Gly Phe Arg
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Asn Gly Lys Ile Thr Phe Asp Asp Tyr Ile Ala Cys Cys Val Lys
  155          160          165
Leu Arg Ala Leu Thr Asp Ser Phe Arg Arg Arg Asp Thr Ala Gln
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<210> 139

<211> 1527

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 349615.7

<400> 139

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 <213> Homo sapiens

<220>
 <221> misc_feature
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<210> 141
 <211> 266
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 632664CD1

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 35 40 45
 Pro Val Gly Gln Arg Arg Ala Trp Cys Trp Cys Met Cys Phe Gly
 50 55 60
 Leu Ala Phe Met Leu Ala Gly Val Ile Leu Gly Gly Ala Tyr Leu
 65 70 75
 Tyr Lys Tyr Phe Ala Leu Gln Pro Asp Asp Val Tyr Tyr Cys Gly
 80 85 90
 Ile Lys Tyr Ile Lys Asp Asp Val Ile Leu Asn Glu Pro Ser Ala
 95 100 105
 Asp Ala Pro Ala Ala Leu Tyr Gln Thr Ile Glu Glu Asn Ile Lys
 110 115 120
 Ile Phe Glu Glu Glu Glu Val Glu Phe Ile Ser Val Pro Val Pro
 125 130 135
 Glu Phe Ala Asp Ser Asp Pro Ala Asn Ile Val His Asp Phe Asn
 140 145 150
 Lys Lys Leu Thr Ala Tyr Leu Asp Leu Asn Leu Asp Lys Cys Tyr
 155 160 165
 Val Ile Pro Leu Asn Thr Ser Ile Val Met Pro Pro Arg Asn Leu
 170 175 180
 Leu Glu Leu Leu Ile Asn Ile Lys Ala Gly Thr Tyr Leu Pro Gln
 185 190 195

Ser Tyr Leu Ile His Glu His Met Val Ile Thr Asp Arg Ile Glu
 200 205 210
 Asn Ile Asp His Leu Gly Phe Phe Ile Tyr Arg Leu Cys His Asp
 215 220 225
 Lys Glu Thr Tyr Lys Leu Gln Arg Arg Glu Thr Ile Lys Gly Ile
 230 235 240
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<210> 142

<211> 1030

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 995929.22

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<210> 143

<211> 2386

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 995929.27

<220>

<221> unsure

<222> 1907, 2297

<223> a, t, c, g, or other

<400> 143

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<210> 144

<211> 1212

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1397029.1

<400> 144

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<211> 841

<212> DNA

<213> Homo sapiens

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<210> 146
 <211> 1480
 <212> DNA
 <213> Homo sapiens

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 <223> Incyte ID No: 1329606.3

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 <221> unsure
 <222> 134, 198, 206
 <223> a, t, c, g, or other

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 <211> 532
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 <213> Homo sapiens

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<220>
 <221> unsure
 <222> 321, 371, 441, 482, 491, 526
 <223> a, t, c, g, or other

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 <222> 240, 321
 <223> a, t, c, g, or other

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  65     70     75
Leu Val Leu Glu Val Asp Pro Asn Ile Gln Ala Val Arg Thr Gln
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Glu Lys Glu Gln Ile Lys Thr Leu Asn Asn Lys Phe Ala Ser Phe
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Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Met Leu Glu
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Asp Glu Ile Asn Lys Arg Thr Glu Met Glu Asn Glu Phe Val Leu
 185    190    195
Ile Lys Lys Asp Val Asp Glu Ala Tyr Met Asn Lys Val Glu Leu
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 215    220    225
Gln Leu Tyr Glu Glu Glu Ile Arg Glu Leu Gln Ser Gln Ile Ser
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Arg Arg Thr Lys	290	Thr Glu Ile Ser Glu	295	Met Asn Arg Asn Ile Ser	300
Arg Leu Gln Ala	305	Glu Ile Glu Gly Leu	310	Lys Gly Gln Arg Ala Ser	315
Leu Glu Ala Ala	320	Ile Ala Asp Ala Glu	325	Gln Arg Gly Glu Leu Ala	330
Ile Lys Asp Ala	335	Asn Ala Lys Leu Ser	340	Glu Leu Glu Ala Ala Leu	345
Gln Arg Ala Lys	350	Gln Asp Met Ala Arg	355	Gln Leu Arg Glu Tyr Gln	360
Glu Leu Met Asn	365	Val Lys Leu Ala Leu	370	Asp Ile Glu Ile Ala Thr	375
Tyr Arg Lys Leu	380	Leu Glu Gly Glu Glu	385	Ser Arg Leu Glu Ser Gly	390
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Ser Tyr Ser Leu	425	Gly Ser Ser Phe Gly	430	Ser Gly Ala Gly Ser Ser	435
Ser Phe Ser Arg	440	Thr Ser Ser Ser Arg	445	Ala Val Val Val Lys Lys	450
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<223> Incyte ID No: 2190217CB1

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Glu Lys Leu Asn Gly Thr Asp Pro Glu Asp Val Ile Arg Asn Ala
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160

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<210> 164

<211> 713

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1094812.1

<400> 164

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 ggtttctctc ttctgtgtct tctgtctccc tgtctccat tatctcttgg acatgggtat 480
 tccaatcccc attctaata gaagaaagaga ctcaagtatg ttctctctgc cctagtctag 540
 ggaagcaag gtctaagaag gaaaacaaat gaataaataa aagaagcagc aggagaaagc 600
 aagtcatgtg ctctgtgtac cacattggaa gaggaggagg aaatagcata ggaagagaac 660
 ctaagagaaa gcaaaaaaa ccaagctcct ctgaaacaat aatatgaaa aag 713

<210> 165

<211> 1636

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2434655CB1

<400> 165

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<210> 166
<211> 527
<212> PRT
<213> Homo sapiens
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<220>  
<221> misc_feature  
<223> Incyte ID No: 2434655CD1
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Pro	Ser	Leu	Ile	Asp	65	Tyr	Arg	Lys	Pro	Ser	Ala	Leu	Lys	Phe	Glu
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Val	Val	His	Met	Pro	80	Gln	Asp	Arg	Thr	Glu	Glu	Asn	Glu	Ile	Phe
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Val	Asp	Leu	Ala	Leu	95	Asn	Val	Leu	Pro	Gly	Leu	Ser	Thr	Trp	Gln
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Leu	Lys	Met	Met	Cys	125	Glu	Ser	Phe	Ile	Tyr	Asn	Gln	Thr	Leu	Met
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Lys	Lys	Leu	Gln	Glu	140	Thr	Asn	Tyr	Asp	Val	Met	Leu	Ile	Asp	Pro
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Val	Ile	Pro	Cys	Gly	155	Asp	Leu	Met	Ala	Glu	Leu	Leu	Ala	Val	Pro
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Phe	Val	Leu	Thr	Leu	170	Arg	Ile	Ser	Val	Gly	Gly	Asn	Met	Glu	Arg
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Ser	Cys	Gly	Lys	Leu	185	Pro	Ala	Pro	Leu	Ser	Tyr	Val	Pro	Val	Pro
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Met	Thr	Gly	Leu	Thr	200	Asp	Arg	Met	Thr	Phe	Leu	Glu	Arg	Val	Lys
					205					205					210
Asn	Ser	Met	Leu	Ser	215	Val	Leu	Phe	His	Phe	Trp	Ile	Gln	Asp	Tyr
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Asp	Tyr	His	Phe	Trp	230	Glu	Glu	Phe	Tyr	Ser	Lys	Ala	Leu	Gly	Arg
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Pro	Thr	Thr	Leu	Cys	245	Glu	Thr	Val	Gly	Lys	Ala	Glu	Ile	Trp	Leu
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Ile	Arg	Thr	Tyr	Trp	260	Asp	Phe	Glu	Phe	Pro	Gln	Pro	Tyr	Gln	Pro
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 275 280 285
 Leu Pro Lys Glu Met Glu Asn Phe Val Gln Ser Ser Gly Glu Asp
 290 295 300
 Gly Ile Val Val Phe Ser Leu Gly Ser Leu Phe Gln Asn Val Thr
 305 310 315
 Glu Glu Lys Ala Asn Ile Ile Ala Ser Ala Leu Ala Gln Ile Pro
 320 325 330
 Gln Lys Val Leu Trp Arg Tyr Lys Gly Lys Lys Pro Ser Thr Leu
 335 340 345
 Gly Ala Asn Thr Arg Leu Tyr Asp Trp Ile Pro Gln Asn Asp Leu
 350 355 360
 Leu Gly His Pro Lys Thr Lys Ala Phe Ile Thr His Gly Gly Met
 365 370 375
 Asn Gly Ile Tyr Glu Ala Ile Tyr His Gly Val Pro Met Val Gly
 380 385 390
 Val Pro Ile Phe Gly Asp Gln Leu Asp Asn Ile Ala His Met Lys
 395 400 405
 Ala Lys Gly Ala Ala Val Glu Ile Asn Phe Lys Thr Met Thr Ser
 410 415 420
 Glu Asp Leu Leu Arg Ala Leu Arg Thr Val Ile Thr Asp Ser Ser
 425 430 435
 Tyr Lys Glu Asn Ala Met Arg Leu Ser Arg Ile His His Asp Gln
 440 445 450
 Pro Val Lys Pro Leu Asp Arg Ala Val Phe Trp Ile Glu Phe Val
 455 460 465
 Met Arg His Lys Gly Ala Lys His Leu Arg Ser Ala Ala His Asp
 470 475 480
 Leu Thr Trp Phe Gln His Tyr Ser Ile Asp Val Ile Gly Phe Leu
 485 490 495
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 515 520 525
 Arg Glu

<210> 167
 <211> 910
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 206344.1

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 ctttaaaacc agattgaatt attttgcttc tgtgaagcct tccctgacta tccccgggat 240
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 ttttagagaga ggggtttttc catctctgtg agaagctcc agaatctaca accaggaata 480
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 attttctgta aaggtatctt tagaaaaata tgtataattt gaaaaatgtg tatccaaatt 660
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<210> 168
 <211> 1525

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1075717.7

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tttaataaact acgctgagac aaattttaaac taggactgtt ctagggggagc tagagataag 180
gaaaagaag aaacagtgct gaaaacttca aatatgtaaa gaaaacatat aatattttaaa 240
gcttaacttt aaacattttac atatgtgtatc aacatatatt tataattaaa taatatattca 300
gataaaaagt tgatgaagac tgaagtgac caaacctaaag atgttgataa aatgatattc 360
aaagtacaaa tagttaaana catccatata ttttaactaca tatccaattt tgtatggggc 420
tgtcatatag atttactata aataacttaa gttgaaaaac aaccaagacc atcaattact 480
tgcttagatc ttaacacagc caaacagacc cctgaaccat ctcattttct tccgattttt 540
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attttaaaca agcttactga aattttaaaga gatctcaaga tgaaaagaaa ctagaataat 660
ggtttggttt taaaacatata ataattaaac ttataaaacc aatgggtaaa tagttttcca 720
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aaaaattaca aatggaataa agttt 1525

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<210> 169
<211> 1174
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1075717.1

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<400> 169
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<210> 170
 <211> 792
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 372647.1

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<210> 171
 <211> 986
 <212> DNA
 <213> Homo sapiens

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 <221> misc_feature
 <223> Incyte ID No: 148512.1

<220>
 <221> unsure
 <222> 581, 597
 <223> a, t, c, g, or other

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<400> 171
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 <211> 3290
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2023119CB1

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<210> 173
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 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2023119CD1

<400> 173

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Ile	Ala	Phe	Val	Leu	Ala	Phe	Ser	Val	Gly	Ala	Asn	Asp	Val	Ala
				35					40					45
Asn	Ser	Phe	Gly	Thr	Ala	Val	Gly	Ser	Gly	Val	Val	Thr	Leu	Lys
				50					55					60
Gln	Ala	Cys	Ile	Leu	Ala	Ser	Ile	Phe	Glu	Thr	Val	Gly	Ser	Val
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Leu	Leu	Gly	Ala	Lys	Val	Ser	Glu	Thr	Ile	Arg	Lys	Gly	Leu	Ile
				80					85					90
Asp	Val	Glu	Met	Tyr	Asn	Ser	Thr	Gln	Gly	Leu	Leu	Met	Ala	Gly
				95					100					105
Ser	Val	Ser	Ala	Met	Phe	Gly	Ser	Ala	Val	Trp	Gln	Leu	Val	Ala
				110					115					120
Ser	Phe	Leu	Lys	Leu	Pro	Ile	Ser	Gly	Thr	His	Cys	Ile	Val	Gly
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Ala	Thr	Ile	Gly	Phe	Ser	Leu	Val	Ala	Lys	Gly	Gln	Glu	Gly	Val
				140					145					150
Lys	Trp	Ser	Glu	Leu	Ile	Lys	Ile	Val	Met	Ser	Trp	Phe	Val	Ser
				155					160					165
Pro	Leu	Leu	Ser	Gly	Ile	Met	Ser	Gly	Ile	Leu	Phe	Phe	Leu	Val
				170					175					180
Arg	Ala	Phe	Ile	Leu	His	Lys	Ala	Asp	Pro	Val	Pro	Asn	Gly	Leu
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Arg	Ala	Leu	Pro	Val	Phe	Tyr	Ala	Cys	Thr	Val	Gly	Ile	Asn	Leu
				200					205					210
Phe	Ser	Ile	Met	Tyr	Thr	Gly	Ala	Pro	Leu	Leu	Gly	Phe	Asp	Lys
				215					220					225
Leu	Pro	Leu	Trp	Gly	Thr	Ile	Leu	Ile	Ser	Val	Gly	Cys	Ala	Val
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Phe	Cys	Ala	Leu	Ile	Val	Trp	Phe	Phe	Val	Cys	Pro	Arg	Met	Lys
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Arg	Lys	Ile	Glu	Arg	Glu	Ile	Lys	Cys	Ser	Pro	Ser	Glu	Ser	Pro
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Leu	Met	Glu	Lys	Lys	Asn	Ser	Leu	Lys	Glu	Asp	His	Glu	Glu	Thr
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Lys	Leu	Ser	Val	Gly	Asp	Ile	Glu	Asn	Lys	His	Pro	Val	Ser	Glu
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Val	Gly	Pro	Ala	Thr	Val	Pro	Leu	Gln	Ala	Val	Val	Glu	Glu	Arg
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Thr	Val	Ser	Phe	Lys	Leu	Gly	Asp	Leu	Glu	Glu	Ala	Pro	Glu	Arg
				320					325					330
Glu	Arg	Leu	Pro	Ser	Val	Asp	Leu	Lys	Glu	Glu	Thr	Ser	Ile	Asp
				335					340					345
Ser	Thr	Val	Asn	Gly	Ala	Val	Gln	Leu	Pro	Asn	Gly	Asn	Leu	Val
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Gln	Phe	Ser	Gln	Ala	Val	Ser	Asn	Gln	Ile	Asn	Ser	Ser	Gly	His
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Tyr	Gln	Tyr	His	Thr	Val	His	Lys	Asp	Ser	Gly	Leu	Tyr	Lys	Glu
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Leu	Leu	His	Lys	Leu	His	Leu	Ala	Lys	Val	Gly	Asp	Cys	Met	Gly
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Asp	Ser	Gly	Asp	Lys	Pro	Leu	Arg	Arg	Asn	Asn	Ser	Tyr	Thr	Ser
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Tyr	Thr	Met	Ala	Ile	Cys	Gly	Met	Pro	Leu	Asp	Ser	Phe	Arg	Ala
				425					430					435
Lys	Glu	Gly	Glu	Gln	Lys	Gly	Glu	Glu	Met	Glu	Lys	Leu	Thr	Trp
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Pro	Asn	Ala	Asp	Ser	Lys	Lys	Arg	Ile	Arg	Met	Asp	Ser	Tyr	Thr
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Ser	Tyr	Cys	Asn	Ala	Val	Ser	Asp	Leu	His	Ser	Ala	Ser	Glu	Ile
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Asp	Met	Ser	Val	Lys	Ala	Glu	Met	Gly	Leu	Gly	Asp	Arg	Lys	Gly

Ser	Asn	Gly	Ser	485	Leu	Glu	Glu	Trp	Tyr	490	Asp	Gln	Asp	Lys	Pro	495
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Gly	Ser	Phe	Ala	515	His	Gly	Gly	Asn	Asp	520	Val	Ser	Asn	Ala	Ile	525
Pro	Leu	Val	Ala	530	Leu	Tyr	Leu	Val	Tyr	535	Asp	Thr	Gly	Asp	Val	540
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Gly	Ile	Cys	Val	560	Gly	Leu	Trp	Val	Trp	565	Gly	Arg	Arg	Val	Ile	570
Thr	Met	Gly	Lys	575	Asp	Leu	Thr	Pro	Ile	580	Thr	Pro	Ser	Ser	Gly	585
Ser	Ile	Glu	Leu	590	Ala	Ser	Ala	Leu	Thr	595	Val	Val	Ile	Ala	Ser	600
Ile	Gly	Leu	Pro	605	Ile	Ser	Thr	Thr	His	610	Cys	Lys	Val	Gly	Ser	615
Val	Ser	Val	Gly	620	Trp	Leu	Arg	Ser	Lys	625	Lys	Ala	Val	Asp	Trp	630
Leu	Phe	Arg	Asn	635	Ile	Phe	Met	Ala	Trp	640	Phe	Val	Thr	Val	Pro	645
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<210> 174

<211> 1708

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1973832CB1

<400> 174

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ccaggaagaa	accacoggaa	ggaaccatct	cactgtgtgt	aaacatgact	ttccagctgg	180
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caaggagtgc	taaaagaactt	agatgtcagt	gcataaagac	atactccaaa	cctttccacc	300
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tatatgtaaa	gtattattta	ttgaaatcta	caaaaaacaa	caaatatttt	ttaaataata	720
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1708

<210> 175

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<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1973832CD1

<400> 175

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          20          25          30
Glu Leu Arg Cys Gln Cys Ile Lys Thr Tyr Ser Lys Pro Phe His
          35          40          45
Pro Lys Phe Ile Lys Glu Leu Arg Val Ile Glu Ser Gly Pro His
          50          55          60
Cys Ala Asn Thr Glu Ile Ile Val Lys Leu Ser Asp Gly Arg Glu
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Leu Cys Leu Asp Pro Lys Glu Asn Trp Val Gln Arg Val Val Glu
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Lys Phe Leu Lys Arg Ala Glu Asn Ser
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<210> 176

<211> 3154

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 241888.54

<220>

<221> unsure

<222> 2919, 2922, 3031, 3033, 3043-3044, 3119

<223> a, t, c, g, or other

<400> 176

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<210> 177
 <211> 800
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <223> Incyte ID No: 1736965CB1

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<210> 178
 <211> 81
 <212> PRT
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 <220>
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Ala Trp Ser Gly Arg Arg Thr Arg Leu Cys Cys His Arg Val Pro			
	35	40	45
Ser Pro Asn Ser Thr Asn Leu Lys Gly His His Val Arg Leu Cys			
	50	55	60
Lys Pro Cys Lys Leu Glu Pro Glu Pro Arg Leu Trp Val Val Pro			
	65	70	75
Gly Ala Leu Pro Gln Val			
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<210> 179

<211> 1738

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 412065.17

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<223> a, t, c, g, or other

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<211> 1273

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 522433CB1

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Ser Asn Thr Asp Leu Val Pro Ala Pro Ala Val Arg Ile Leu Thr
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Glu Leu His Leu	170	Arg Pro Gln Ala Ala	175	Arg Gly Arg Arg Ala	180
Arg Ala Arg Asn	185	Gly Asp His Cys Pro	190	Leu Gly Pro Gly Arg	195
Cys Arg Leu His	200	Thr Val Arg Ala Ser	205	Leu Glu Asp Leu Gly	210
Ala Asp Trp Val	215	Leu Ser Pro Arg Glu	220	Val Gln Val Thr Met	225
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Gln Ile Lys Thr	245	Ser Leu His Arg Leu	250	Lys Pro Asp Thr Val	255
Ala Pro Cys Cys	260	Val Pro Ala Ser Tyr	265	Asn Pro Met Val Leu	270
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gatgtgtttg	gggcctcttc	atcaggaagt	gagctgtctc	ctcagcgctc	catccagctt	1500
gagagtaagg	gattaaacct	ccagaacagc	cagtggaatg	atggcagagt	ctcagctgtc	1560
agcaccgtgg	gaaaggagac	tttgtttctt	atccactctg	caacgcagcc	tcctccaaat	1620
cttctctggg	ttcccagctg	acagaagcaa	gggtggcttg	tagtggaaca	aaacacccaa	1680
atggcctacc	atccaaatcc	agggcattgc	aaggtttgga	ctgtgaaata	cagttgtcaa	1740
gcaagctcac	aaacctgtgac	ccctgactgc	acgtcccgct	cgctccattg	taacctgtct	1800
ccaattacag	tgactttccaa	aacgaacaag	gacacacaga	atttcccaga	ccctcttgta	1860
gtttatgcac	atatctgcga	aggagcctcc	ccaattctca	gggcccagtg	cacagccctg	1920

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attgaatcag tgaatggaaa aacagttacc ttggaactac tggataatgg agcagggtgct 1980
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agatacagtg taaaagtggc ggctctggga ggagttaacg cagccagacg gagagtgata 2100
ccccagcaga gtggagcact gtacatacct ggctggattg agaattgatga aatacaatgg 2160
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attcgaataa gtacaagtat tcttgatctc agagacaagt tcaatgaaic tcttcaagt 2460
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gaaaacatta cttttgaaaa tggcacagat cttttcattg ctattcaggc tgttgataag 2580
gtcgatctga aatcagaagt atccaacatt gcacgagtat cttgttttat tctctccacg 2640
actcgcgcag agacacctag tctctgatga acgtctgtcc cttgtctcaa tattcatatc 2700
aacagcacca tctctggcat tcacatttta aaaattatgt ggaagtggat aggagaactg 2760
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atttttagact tctcttaggg ggcgataaaa taaaattgcta aacaactggg tatcatatga 3000
taaaaactat ccatttcaaac ccaaaaattt aataatcatt gagtctttta ttaatgaatt 3060
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<210> 192

<211> 914

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1737775CD1

<400> 192

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Met Gly Pro Phe Lys Ser Ser Val Phe Ile Leu Ile Leu His Leu
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 20     25     30
Gly Tyr Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu
 35     40     45
Asp Glu Thr Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala
 50     55     60
Ser Leu Tyr Leu Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys
 65     70     75
Asn Val Ala Ile Leu Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp
 80     85     90
Tyr Val Arg Pro Lys Leu Glu Thr Tyr Lys Asn Ala Asp Val Leu
 95    100    105
Val Ala Glu Ser Thr Pro Pro Gly Asn Asp Glu Pro Tyr Thr Glu
110    115    120
Gln Met Gly Asn Cys Gly Glu Lys Gly Glu Arg Ile His Leu Thr
125    130    135
Pro Asp Phe Ile Ala Gly Lys Lys Leu Ala Glu Tyr Gly Pro Gln
140    145    150
Gly Arg Ala Phe Val His Glu Trp Ala His Leu Arg Trp Gly Val
155    160    165
Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr Leu Ser Asn Gly
170    175    180
Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr Gly Thr Asn
185    190    195
Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys Arg Cys
200    205    210
Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu Phe
215    220    225
Val Leu Gln Ser Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala
230    235    240
Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His
245    250    255
Asn Lys Glu Ala Pro Asn Lys Gln Asn Gln Lys Cys Asn Leu Arg

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260 265 270
 Ser Thr Trp Glu Val Ile Arg Asp Ser Glu Asp Phe Lys Lys Thr
 275 280 285
 Thr Pro Met Thr Thr Gln Pro Pro Asn Pro Thr Phe Ser Leu Leu
 290 295 300
 Gln Ile Gly Gln Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly
 305 310 315
 Ser Met Ala Thr Gly Asn Arg Leu Asn Arg Leu Asn Gln Ala Gly
 320 325 330
 Gln Leu Phe Leu Leu Gln Thr Val Glu Leu Gly Ser Trp Val Gly
 335 340 345
 Met Val Thr Phe Asp Ser Ala Ala His Val Gln Ser Glu Leu Ile
 350 355 360
 Gln Ile Asn Ser Gly Ser Asp Arg Asp Thr Leu Ala Lys Arg Leu
 365 370 375
 Pro Ala Ala Ala Ser Gly Gly Thr Ser Ile Cys Ser Gly Leu Arg
 380 385 390
 Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr Pro Thr Asp Gly Ser
 395 400 405
 Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn Thr Ile Ser Gly
 410 415 420
 Cys Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile His Thr Val
 425 430 435
 Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu Ser Lys
 440 445 450
 Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln Asn
 455 460 465
 Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly
 470 475 480
 Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr
 485 490 495
 Leu Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp Ser
 500 505 510
 Thr Val Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln
 515 520 525
 Pro Pro Gln Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly
 530 535 540
 Gly Phe Val Val Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile
 545 550 555
 Pro Gly Ile Ala Lys Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala
 560 565 570
 Ser Ser Gln Thr Leu Thr Leu Thr Val Thr Ser Arg Ala Ser Asn
 575 580 585
 Ala Thr Leu Pro Pro Ile Thr Val Thr Ser Lys Thr Asn Lys Asp
 590 595 600
 Thr Ser Lys Phe Pro Ser Pro Leu Val Val Tyr Ala Asn Ile Arg
 605 610 615
 Gln Gly Ala Ser Pro Ile Leu Arg Ala Ser Val Thr Ala Leu Ile
 620 625 630
 Glu Ser Val Asn Gly Lys Thr Val Thr Leu Glu Leu Leu Asp Asn
 635 640 645
 Gly Ala Gly Ala Asp Ala Thr Lys Asp Asp Gly Val Tyr Ser Arg
 650 655 660
 Tyr Phe Thr Thr Tyr Asp Thr Asn Gly Arg Tyr Ser Val Lys Val
 665 670 675
 Arg Ala Leu Gly Gly Val Asn Ala Ala Arg Arg Arg Val Ile Pro
 680 685 690
 Gln Gln Ser Gly Ala Leu Tyr Ile Pro Gly Trp Ile Glu Asn Asp
 695 700 705
 Glu Ile Gln Trp Asn Pro Pro Arg Pro Glu Ile Asn Lys Asp Asp
 710 715 720
 Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser Gly Gly
 725 730 735
 Ser Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp Leu
 740 745 750
 Phe Pro Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly

	755		760		765
Gly Ser Leu Ile	Asn Leu Thr Trp Thr	Ala Pro Gly Asp Asp Tyr			
	770		775		780
Asp His Gly Thr	Ala His Lys Tyr Ile	Ile Arg Ile Ser Thr Ser			
	785		790		795
Ile Leu Asp Leu	Arg Asp Lys Phe Asn Glu Ser	Leu Gln Val Asn			
	800		805		810
Thr Thr Ala Leu	Ile Pro Lys Glu Ala Asn Ser	Glu Glu Val Phe			
	815		820		825
Leu Phe Lys Pro	Glu Asn Ile Thr Phe Glu Asn Gly Thr	Asp Leu			
	830		835		840
Phe Ile Ala Ile	Gln Ala Val Asp Lys Val Asp Leu Lys Ser	Glu			
	845		850		855
Ile Ser Asn Ile	Ala Arg Val Ser Leu Phe Ile Pro Pro Gln Thr				
	860		865		870
Pro Pro Glu Thr	Pro Ser Pro Asp Glu Thr Ser Ala Pro Cys	Pro			
	875		880		885
Asn Ile His Ile	Asn Ser Thr Ile Pro Gly Ile His Ile Leu Lys				
	890		895		900
Ile Met Trp Lys	Trp Ile Gly Glu Leu Gln Leu Ser Ile Ala				
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<210> 193
 <211> 1714
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 088078CB1

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 agcagaatcac agccattgga tgaatataaa gacaatcctg gatgagctta ttccagagagg 180
 tcatgagggtg actgtactgg catcttcacg ttccattctt ttgatccca acaactcatc 240
 cgctctttaa attgaatttt atcccacatc actgagttgg agaattttcat 300
 catgcaacag attaagagat ggtcagacct tccaaaagat acatttttgt tatatttttc 360
 acaagtacag gaaatcatgt caatatattgg tgacataact agaaaagttct tgaagaatgt 420
 agtttcaaat aagaaattta tgaaaaaagt acaagagtca agatttgacg tcatttttgc 480
 agatgctatt ttctcctgta gtgagctgtc ggctgagcta tttaacatcac ctttgtgtga 540
 cagtctcagc ttctctcctg gctacacttt tgaaaagcat agtggaggat ttattttccc 600
 tccttctcac gtacctgttg ttatgtcaga attaatgatg caaatgactt tcattggagag 660
 ggttaaaaaat atgactctat tgcttttact tgacttttgg ttgaaaatatt tgcagatgaa 720
 gaaagtgggat cagttttata gtgaagttct aggaagaccg actacgttat ctgagacaat 780
 ggggaaagct gacgtatggc ttattcgaaa ctctctggaat ttccagtttc ctatcccatc 840
 ctacacaaat gtgtattttg ttggaggact ccaactgcaaa cctgcgcaaac cctgcctcaa 900
 ggaatatggaa gactttgtac agagctctgg agaaaaatgt gttgtgtgtg ttctctctgg 960
 gccaatggtc agtaacatga cagaagaaag ggccaacgta attgcatcag cctgtggccca 1020
 gatcccacaa aaggtttctgt ggagatttga tgggaataaa ccagataact taggttctcaa 1080
 tactcggtct tacaagtggg taccccgaaa tgaccttcta ggctcatcaa agaccagagc 1140
 tttttaactc catggtggag ccaatggcat ctacagggca atccaccatg gcatccctat 1200
 ggtgtgggatg ccaatgtttg ctgatcaacc tgataacatt gctcaccatga aggcagggg 1260
 agcagctgtt agagtggact tcaacacaaat gtcgagtaca gactttgtga atgcattgaa 1320
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 caaaggagct aaacaccttc gggttgcagc ccaagcactc acctgtgttc agtaccactc 1500
 ttgtgatgtg attgggttct tgctgtctct tgtgtgcaact ttgtgcaact ttgtatatta tcgtcacaaa 1560
 atgttgtctg ttttgtttct ggaagtttgc tagaaaaagc aagaagggaa aaatgatta 1620
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 <211> 529
 <212> PRT
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 088078CD1

<400> 194

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 20          25          30
Ala Glu Tyr Ser His Trp Met Asn Ile Lys Thr Ile Leu Asp Glu
 35          40          45
Leu Ile Gln Arg Gly His Glu Val Thr Val Leu Ala Ser Ser Ala
 50          55          60
Ser Ile Leu Phe Asp Pro Asn Asn Ser Ser Ala Leu Lys Ile Glu
 65          70          75
Ile Tyr Pro Thr Ser Leu Thr Lys Thr Glu Leu Glu Asn Phe Ile
 80          85          90
Met Gln Gln Ile Lys Arg Trp Ser Asp Leu Pro Lys Asp Thr Phe
 95          100          105
Trp Leu Tyr Phe Ser Gln Val Gln Glu Ile Met Ser Ile Phe Gly
 110          115          120
Asp Ile Thr Arg Lys Phe Cys Lys Asp Val Val Ser Asn Lys Lys
 125          130          135
Phe Met Lys Lys Val Gln Glu Ser Arg Phe Asp Val Ile Phe Ala
 140          145          150
Asp Ala Ile Phe Pro Cys Ser Glu Leu Leu Ala Glu Leu Phe Asn
 155          160          165
Ile Pro Phe Val Tyr Ser Leu Ser Phe Ser Pro Gly Tyr Thr Phe
 170          175          180
Glu Lys His Ser Gly Gly Phe Ile Phe Pro Pro Ser Tyr Val Pro
 185          190          195
Val Val Met Ser Glu Leu Thr Asp Gln Met Thr Phe Met Glu Arg
 200          205          210
Val Lys Asn Met Ile Tyr Val Leu Tyr Phe Asp Phe Trp Phe Glu
 215          220          225
Ile Phe Asp Met Lys Lys Trp Asp Gln Phe Tyr Ser Glu Val Leu
 230          235          240
Gly Arg Pro Thr Thr Leu Ser Glu Thr Met Gly Lys Ala Asp Val
 245          250          255
Trp Leu Ile Arg Asn Ser Trp Asn Phe Gln Phe Pro His Pro Leu
 260          265          270
Leu Pro Asn Val Asp Phe Val Gly Gly Leu His Cys Lys Pro Ala
 275          280          285
Lys Pro Leu Pro Lys Glu Met Glu Asp Phe Val Gln Ser Ser Gly
 290          295          300
Glu Asn Gly Val Val Val Phe Ser Leu Gly Ser Met Val Ser Asn
 305          310          315
Met Thr Glu Glu Arg Ala Asn Val Ile Ala Ser Ala Leu Ala Gln
 320          325          330
Ile Pro Gln Lys Val Leu Trp Arg Phe Asp Gly Asn Lys Pro Asp
 335          340          345
Thr Leu Gly Leu Asn Thr Arg Leu Tyr Lys Trp Ile Pro Gln Asn
 350          355          360
Asp Leu Leu Gly His Pro Lys Thr Arg Ala Phe Ile Thr His Gly
 365          370          375
Gly Ala Asn Gly Ile Tyr Glu Ala Ile Tyr His Gly Ile Pro Met
 380          385          390
Val Gly Ile Pro Leu Phe Ala Asp Gln Pro Asp Asn Ile Ala His
 395          400          405
Met Lys Ala Arg Gly Ala Ala Val Arg Val Asp Phe Asn Thr Met
 410          415          420
Ser Ser Thr Asp Leu Leu Asn Ala Leu Lys Arg Val Ile Asn Asp
 425          430          435
Pro Ser Tyr Lys Glu Asn Val Met Lys Leu Ser Arg Ile Gln His
 440          445          450
Asp Gln Pro Val Lys Pro Leu Asp Arg Ala Val Phe Trp Ile Glu

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				455					460				465
Phe	Val	Met	Arg	His	Lys	Gly	Ala	Lys	His	Leu	Arg	Val	Ala
				470					475				480
His	Asp	Leu	Thr	Trp	Phe	Gln	Tyr	His	Ser	Leu	Asp	Val	Ile
				485					490				495
Phe	Leu	Leu	Val	Cys	Val	Ala	Thr	Val	Ile	Phe	Ile	Val	Thr
				500					505				510
Cys	Cys	Leu	Phe	Cys	Phe	Trp	Lys	Phe	Ala	Arg	Lys	Ala	Lys
				515					520				525
Gly	Lys	Asn	Asp										